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WEST CHESTER STATE COLLEGE

IS ACCREDITED BY

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AND SECONDARY SCHOOLS,

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THE AMERICAN ASSOCIATION FOR HEALTH,

PHYSICAL EDUCATION, AND RECREATION,

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Assistant to the Director of Student Teaching . Charles M. Micken
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Governmental Association ..... Frank E. Peterson
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Dean of Administration ..... Lloyd W. Black
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Assistant to the Superintendent
of Plant Management ..... William A. Peoples

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and College Publications ..... William P. Houpt

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Hannahbelle T. Morrison ..... Senior Clerk
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Charles Finegan ..... Grounds Foreman

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John Winder ..... Utility Plant Supervisor

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Paul Gordon ..... Carpenter Foreman

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Julia D. Oat ..... Secretary to the President

Jo Ann Smith ..... Secretary to the Dean of Academic Affairs

Beverly N. Lennon ..... Secretary to the Dean of Student Affairs

S. Louise Phiel ..... Secretary to the Dean of Administration

FACULTY

EARL F. SYKES (1938) *President*
B.A., M.A., Montana University; Ed.D., Columbia University.

* ALEXANDER ANTONOWICH (1945)
Vice-Chairman, Music Department
Professor of Music
Institute of Musical Art; B.S., Juilliard School of Music; M.A., Ed.D., Columbia University.

ELEANOR W. ASHKENAZ (1965)
Associate Professor of Biology
B.S., Ph.D., University of Pennsylvania.

DOROTHY D. BAILEY (1958) *Professor of English*
B.A., Our Lady of the Lake College; M.A., University of Texas; Ph.D., University of Wisconsin.

MICHAEL F. BANNON (1955) *Professor of Education*
B.S., State College, Troy, Alabama; M.A., Columbia University; Ed.D., George Peabody College for Teachers.

PAUL A. BANYACSKI (1965)
Assistant Professor of Philosophy
B.A., Eastern Baptist College; Eastern Baptist Seminary; Bryn Mawr College.

EDWARD A. BARROW (1956) *Assistant Professor of Music*
B.Mus., M.Mus., Eastman School of Music, University of Rochester.

LUTHER R. BARTH (1964) *Assistant Professor of Education*
B.S., Pennsylvania State University; M.Ed., Loyola University.

ISABELLA V. BAYNE (1963) *Demonstration School*
Instructor of Education
B.S., West Chester State College; M.S., University of Pennsylvania.

ELIZABETH B. BEATTY (1960) *Assistant Professor of Music*
B.Mus., University of Michigan; Curtis Institute of Music; Ed.M., Temple University.

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* Sabbatical Leave, Spring, 1966

HAROLD W. BENDA (1956)
Chairman of Education Department
Professor of Education
B.A., Iowa State Teachers College; M.A., University of Iowa; Ed.D., New York University.

WILLIAM R. BENNER (1938)
Assistant to the Dean of Student Affairs
B.S., West Chester State College; M.A., Temple University.

BERNICE H. BERNATZ (1954) *Dean of Women*
Associate Professor
B.A., Iowa State Teachers College; M.A., University of Michigan.

ROBERT W. BERNHARDT (1965)
Associate Professor of Biology
B.S., M.S., State University College of Forestry; University of Massachusetts.

THOMAS E. BERRY (1946) *Professor of English*
A.B., A.M., University of Pennsylvania; Ph.D., University of Pittsburgh.

FLOYD R. BIELSKI (1961) *Associate Professor of Geography*
B.S., Indiana State College; M.A., University of Illinois; Pennsylvania State University.

JAMES A. BINNEY (1947) *Professor of English*
Clarion State College; B.A., Pennsylvania State University; M.A., Ph.D., University of Pittsburgh.

LLOYD W. BLACK (1960) *Assistant to the*
Dean of Administration
Assistant Professor of Health
and Physical Education
B.S., M.S., Temple University; Post Master's, Temple University.

MARY M. BLISS (1952) *Assistant Professor of Science*
A.B., Swarthmore College; M.S., Temple University.

RICHARD A. BOERLIN (1961) *Assistant Professor of Music*
B.S., M.S., University of Illinois; Pennsylvania State University.

JOHN BOSWORTH-FLING (1965)
Associate Professor of English
A.B., West Virginia University; M.A., Columbia University; M.S.J., Northwestern University; Post Master's, Harvard University.

EVA F. BOURGEOIS (1964) *Lecturer, Education*
B.S., West Chester State College; Ed.M., Temple University.

RICHARD E. L. BRADSHAW (1964)
Assistant Professor of History
B.A., Kenyon College; M.A., University of Pennsylvania.

HAROLD BRAM (1965) *Assistant Professor of Sociology*
B.A., M.A., University of New Mexico; University of Pennsylvania.

* RICHARD G. BRANTON (1962)
Assistant Professor of Mathematics
B.S., West Chester State College; M.S., University of Delaware; University of Pennsylvania.

JUSTO B. BRAVO (1964) *Professor of Chemistry*
B.S., Adamson University, Manila; Ph.D., University of Kansas.

TYRONE BREUNINGER (1965) *Instructor of Music*
B.S., West Chester State College; Temple University.

FREDERICK R. BROWN (1965)
Assistant Professor of Music
B.S., Kutztown State College; M.Mus., Philadelphia Musical Academy; Temple University.

WILLIAM J. BRUEHL (1960) *Associate Professor of English*
B.S., West Chester State College; M.A., University of Pennsylvania; Hofstra College; University of Pennsylvania.

STELLA E. BRUTON (1964) *Assistant Professor of English*
A.B., M.A., Stanford University; University of North Carolina.

WALTER E. BUECHELE, JR. (1962)
Assistant Professor of Education
B.S., West Chester State College; Ed.M., Temple University.

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* Leave of Absence, 1965-66

PETER D. BUEHLER (1964) *Instructor of Biology*
B.S., Capitol University; M.S., Ohio University, Athens.

WILLIAM F. BURNS (1964) *Assistant Professor of Political Science*
B.A., Allegheny College; M.A., Western Reserve University; University of Pennsylvania.

ANTHONY W. BURTON (1965)
Assistant Professor of Political Science
B.A., Brigham Young University; M.A., University of Pennsylvania; Brigham Young University; University of Pennsylvania.

ROBERT L. CARL (1946) *Assistant Professor of Music*
B.S., Johns Hopkins University; B.Mus., M.Mus., Peabody Conservatory of Music.

ROBERT E. CARLSON (1961) *Professor of History*
B.A., M.A., Ph.D., University of Pittsburgh.

CECILY G. CARMICHAEL (1962) *Assistant Librarian Instructor*
B.S., Simmons College.

PAUL E. CARSON (1946) *Associate Professor of Music*
B.S., Central Missouri State College; M.F.A., Carnegie Institute of Technology; Professional Diploma, T.C., Columbia University.

GERALD B. CARTRIGHT (1961)
Principal of Demonstration School
Associate Professor of Education
B.S., Lock Haven State College; M.Ed., Pennsylvania State University; Post Master's, Pennsylvania State University.

LOUIS ANTHONY CASCIATO (1963)
Associate Professor of Science
B.S., St. Joseph's College; M.S., Villanova University; University of Pennsylvania.

CONRAD E. CHALICK (1962) *Demonstration School Instructor of Education*
B.A., Pennsylvania Military College; Temple University.

CAROL F. CHANG (1965) *Lecturer, Biology*
B.S., Fukien Christian University, Foochow, Fukien, China; B.S., Johns Hopkins University; Princeton Theological Seminary; West Chester State College.

FRANK T. CHEESMAN (1947) *Professor of Music*
Conservatory of Music, Toronto, Canada; B.M.Ed., B.Mus., M.Mus., Northwestern University; Ed.D., Columbia University.

KATHRYN F. CHILDS (1965) *Lecturer, Mathematics*
B.S., West Chester State College; M.S., University of Pennsylvania; Rutgers University.

* CARMELA N. CINQUINA (1963)
Assistant Professor of Biology
B.S., West Chester State College; Temple University; Johns Hopkins University; M.S., Villanova University; Rutgers University.

GEORGE S. CLAGHORN (1963)
Chairman of Philosophy Dept.
Professor of Philosophy
B.A., University of Chattanooga; Ph.D., University of Pennsylvania; Columbia University.

JOYZELLE CLARK (1965) *Associate Professor of Psychology*
B.A., Ed.M., University of Buffalo; Penn State University; Gettysburg College; University of Pennsylvania.

MARY GRAY CLARKE (1964) *Associate Professor of Music*
B.M., M.M., Manhattan School of Music; M.A., University of North Carolina.

JOHN W. CLOKEY (1946) *Chairman of English Department*
Professor of English
B.S., West Chester State College; Ed.M., Temple University; Post Master's, Temple University.

BARBARA J. COATES (1954) *Associate Professor of Health and Physical Education*
B.S., Lock Haven State College; M.A., Allegheny College.

---

* Leave of Absence, 1965-66.

NORMAN A. COCHRAN (1956) *Professor of Health and Physical Education*

B.S., West Chester State College; M.A., Ed.D., University of Maryland.

RICHARD C. COHOES (1965) *Associate Professor of Mathematics*

A.B., A.M., Columbia University; M.A., Columbia University; New York University.

ANA R. COLLADO (1965) *Assistant Professor of Romance Languages*

Doctor of Pedagogy, University of Havana; Orbon Conservatory; Ankerman Conservatory.

FAYE A. COLLICOTT (1929) *Assistant Librarian Associate Professor*

A.B., Simpson College; B.S., Columbia University; A.M., Columbia University.

WAYNE E. CONAWAY (1963) *Assistant Professor of Music*

B.Mus., M.Mus., Philadelphia Musical Academy.

GERALDINE C. CONBEER (1946) *Acting Head Librarian Associate Professor*

B.S., Millersville State College; B.S., Drexel Institute of Technology; M.Ed., University of Pittsburgh.

PHYLLIS S. COOPER (1964) *Instructor of Health and Physical Education*

B.S., University of Maryland; Post Bachelor's, University of Maryland.

WILLIAM F. COPE (1963) *Associate Professor of English*

B.F.A., University of Oklahoma; M.A., Columbia University, State University of Iowa; Biarritz American University, France.

EDWIN B. COTTRELL (1955) *Vice-Chairman of Health and Physical Education Department Professor of Health and Physical Education*

B.S., Slippery Rock State College; M.Ed., University of Pittsburgh; Ed.D., Pennsylvania State University.

* RENE COULET-DUGARD (1963) *Assistant Professor of Romance Languages*
B.A., University of Paris; M.A., University of Pennsylvania.

MARGARET G. CULLEN (1964)
Associate Professor of Biology
B.S., M.A., Kent State University; University of Pennsylvania.

ALVIN B. DAVIS (1948) *Associate Professor of Health and Physical Education*
B.S., Panzer College; M.A., Montclair State College.

RONALD N. DEFINO (1965) *Assistant Professor, Art*
B.S., Philadelphia Museum College of Art; M.F.A., Temple University.

BACHUBHAI M. DESAI (1965) *Assistant Librarian, Instructor*
B.A., Baroda College, Baroda, Bombay University, Bombay, India; M.S.L.S., Villanova University.

FLORENCE B. DIMARCO (1961) *Demonstration School Assistant Professor of Education*
B.Ed., Pennsylvania State University.

PHILIP DONLEY (1965) *Associate Professor of Health and Physical Education*
B.S., M.S., West Virginia University.

JOHN E. C. DORCHESTER (1961)
Vice-Chairman of the Department of Sciences Professor of Biology
B.A., M.A., University of British Columbia; Ph.D., University of Toronto.

RAYMOND A. DOYLE (1965) *Instructor of Social Sciences*
B.S., West Chester State College; University of Delaware.

ROBERT E. DRAYER (1964) *Assistant Professor of History*
A.B., A.M., Ph.D., University of Pennsylvania.

RALPH A. EISENSTADT (1965) *Field Consultant Language Project Assistant Professor*
B.A., University of Pennsylvania; M.A., University of Illinois, Princeton University.

* Resident Director, Junior Year Abroad.

CHARLES P. EMERY (1957) *Supervisor of Student Teaching*
Assistant Professor of Education
B.S., West Chester State College; M.S., University of Pennsylvania.

GEORGE H. EMIG, JR. (1965) *Lecturer,*
Health and Physical Education
B.S., Pennsylvania State University; Pennsylvania State University.

HAYDEE O. P. ERN (1965) *Lecturer, Computer Science*
Mech. & Elec. Engineer, La Plata University, La Plata, Buenos Aires, Argentina; Aeronautical Engineer, La Plata University; Master of Engineering, Yale University.

MARLIN A. ESPENSHADE (1964) *Lecturer, Biology*
B.S., Lebanon Valley College; M.S., Purdue University; Ph.D., George Washington University.

MARK M. EVANS (1947) *Director of Student Teaching*
Professor
B.Ph., Dickinson College; M.Ed., Ph.D., University of Pittsburgh.

N. DEAN EVANS (1965) *Area Curriculum Coordinator*
Professor
A.B., Ursinus College; M.S., University of Pennsylvania; Ed.D., Temple University.

EDWARD G. EVERETT (1954) *Professor of History*
B.S., Indiana State College; M.A., Ph.D., University of Pittsburgh.

ALBERT E. FILANO (1956)
Chairman of Mathematics Department
Professor of Mathematics
B.S., M.S., University of Pennsylvania; Ph.D., Pennsylvania State University.

ALTA FISHER (1965) *Lecturer, Mathematics*
B.S., Millersville State College; M.S., University of Pennsylvania.

BYRON Y. FLECK (1953)
Chairman of Department of Social Sciences
Professor of History and Political Science
Franklin and Marshall; B.A., M.A., Ph.D., University of Iowa.

ARNOLD FLETCHER (1946) *Dean of Academic Affairs*
Professor

B.S., Ed.M., Temple University; Juilliard School of Music; Columbia University; Ed.D., University of Pennsylvania.

FRANK B. FORD (1965) *Assistant Professor of English*

B.A., M.A., University of Connecticut.

THOMAS J. FRANCELLA (1965)
Assistant Professor of Education

A.B., Syracuse University; M.A., Villanova University.

HOWARD FREEMAN (1961) *Associate Professor of Education*

B.S., Millersville State College; M.A., University of Wyoming; University of Pennsylvania.

WALTER E. FRIEMAN, JR. (1961) *Assistant Professor of*
Classical Languages

B.S., New York University; S.T.B. General Theological Seminary; S.T.M., Philadelphia Divinity School; Th.D., Philadelphia Divinity School.

JOHN J. FURLOW (1961) *Instructor of Health and*
Physical Education

B.S., West Chester State College; Temple University.

CHARLES D. GANGEMI (1961) *Associate Professor of Music*

B.A., M.A., University of Pennsylvania.

MARY L. GEISZ (1965) *Assistant Librarian*
Assistant Professor

B.S., West Chester State College; M.S.L.S., West Chester State College; University of Pennsylvania; Villanova University.

MARGARET E. GILES (1964) *Instructor of English*

B.S., Gettysburg College; M.A., Johns Hopkins University.

MARY KAY GIMMY (1965) *Field Consultant*
Language Project
Instructor

B.A., Gettysburg College; University of Vienna; University of Colorado.

LOUISE S. GIUNTA (1963) *Instructor of*
Health and Physical Education

B.S., West Chester State College; Temple University.

DUSAN P. GLUMAC (1963) *Associate Professor of Slavic Languages*

M.Div., M.S., M.A., University of Belgrade; University of Pennsylvania.

CHARLOTTE M. GOOD (1965) *Assistant Professor of Education*

B.S., Bucknell University; M. Ed., Pennsylvania State University; Temple University; University of Hawaii; University of Chicago.

HENRY E. GOODWIN (1960) *Associate Professor of Health and Physical Education*

B.S., Lock Haven State College; M.S., Pennsylvania State University; Post Master's, Pennsylvania State University.

MIRIAM S. GOTTLIEB (1946) *Associate Professor of Music*

A.B., University of Denver; M.A., Columbia University; Juilliard School of Music.

JOHN H. GRAFTON, JR. (1961) *Demonstration School Assistant Professor of Education*

B.S., West Chester State College; M.A., Scarritt College; Temple University.

SAUL H. GREENBERG (1963) *Assistant Professor of Education*

B.S., M.Ed., Pennsylvania State University.

SEYMOUR S. GREENBERG (1964) *Associate Professor of Geology*

B.S., Brooklyn College; A.M., Ph.D., Indiana University.

MILDRED L. GREENWOOD (1965) *Assistant Professor of Health and Physical Education*

A.B., Wheaton College; M.Ed., Temple University; Temple University; Penn State Extension.

THELMA J. GREENWOOD (1922) *Assistant Professor of Science*

B.S., M.A., New York University.

CATHERINE E. GREGG (1954) *Professor of Education*

B.A., Oberlin College; M.A., Western Reserve University; Ph.D., Columbia University.

ALICE B. GRIFFIN (1965) *Assistant Professor of English*
A.B., University of Delaware; A.M., University of Maryland; Ph.D., University of Pennsylvania.

YVONNE GROS (1963) *Instructor of Health and Physical Education*
B.S., Ursinus College.

ETHEL G. HAAS (1953) *Associate Professor of Education*
B.S., Plattsburgh State Teachers College; M.Ed., University of Maryland; Post Master's, University of Maryland; University of Pennsylvania.

JAMES E. HABECKER (1964)
Associate Professor of Education
A.B., Franklin and Marshall College; M.Ed., Western Maryland College; Pennsylvania State University; University of Pennsylvania.

HELEN E. HALES (1962) *Assistant Professor of Music*
B.Mus., Peabody Conservatory of Music; Johns Hopkins University; M.Mus., Peabody Conservatory of Music; Temple University.

H. THEODORE HALLMAN (1950)
Chairman of Art Department
Professor of Art
Philadelphia Museum School of Fine Art; B.F.A., B.S., M.F.A., Temple University; Tyler School of Fine Arts.

WALKER HAMILTON, JR. (1965) *Instructor of English*
A.B., University of Pennsylvania; A.M., University of Pennsylvania; Washington University.

JOSEPHINE C. HAMPSON (1963)
Assistant Librarian, Instructor
B.S., West Chester State College; Philadelphia Museum School of Art; Drexel Institute of Technology.

CLIFFORD H. HARDING (1953) *Professor of History and Political Science*
A.B., Nebraska State College; M.A., State University of Iowa; Ph.D., New York University.

ROBERT W. HAWKES (1962) *Assistant Professor of Physics*
B.S., West Chester State College; M.S., Pennsylvania State University; University of Delaware.

ARTHUR S. HAWTHORNE (1949)
Associate Professor of Geography
B.S., California State College; M.A., University of Pittsburgh; Post Master's, University of Pittsburgh.

JACK G. HAWTHORNE (1965) *Assistant Professor of Art*
B.A., Philadelphia College of Art; M.S. in Ed., M.F.A., University of Pennsylvania.

JOHN J. HEIM (1961) *Associate Professor of Health and Physical Education*
B.S., M.Ed., University of Delaware; Columbia University; Temple University.

WILLIAM H. HENRY, JR. (1960)
Associate Professor of English
A.B., University of Pennsylvania; Ed.M., A.M., Temple University.

ROBERT W. HERRES (1961) *Associate Professor of Education*
B.S., Oswego State Teachers College; M.A., Syracuse University; Columbia University; New York University; University of Virginia.

JULIUS M. HILL (1955) *Professor of Education*
B.S., Northern Michigan College of Education; M.A., Ph.D., University of Michigan.

PERRY F. HOBERG (1965) *Assistant Professor of Art*
B.F.A., B.S.Ed., Pennsylvania Academy of Fine Arts, Tyler School of Fine Arts; M.A., University of Delaware.

JOHN HOLINGJAK, JR. (1965)
Supervisor of Student Teaching
Associate Professor of Education
B.S., Kutztown State College; Ed.M., Temple University; University of Pennsylvania.

MARGARET W. HOLMAN (1962)
Assistant Professor of English
B.S., West Chester State College; M.Ed., Pennsylvania State University; Northwestern University.

ANTHONY B. HOPKINS (1960) *Assistant Professor of Health and Physical Education*
B.S., M.S., Springfield College.

WILLIAM P. HOUPT (1963) *Director of Public Relations*
Associate Professor of History
A.B., M.A., (History), M.A., (Literature), Ph.D., University of Pennsylvania.

FLORENCE B. INGHRAM (1960) *Assistant Dean of Women*
Assistant Professor
B.A., State University of Iowa; M.A., Columbia University; Claremont Graduate College.

HELEN T. IVINS (1946) *Assistant Professor of History*
B.S., West Chester State College; M.S., University of Pennsylvania.

SUZANNE T. JACOBS (1962) *Assistant Professor of English*
A.B., University of Pennsylvania; Ed.M., Temple University; Pennsylvania State University; Delaware University.

FREDERICK JACOBSON(1965) *Assistant Professor of Physics*
B.A., La Salle College; Ed.M., Temple University.

CONSTANTINE JOHNS (1954) *Professor of Music*
B.S., Southeast Missouri State Teachers College; M.A., Ed.D., Columbia University.

HARRY G. JONES (1960) *Assistant Professor of Science*
B.S., Millersville State College; M.S., University of Pennsylvania.

RUBY J. JONES (1961) *Demonstration School*
Assistant Professor of Education
B.S., West Chester State College; M.A., Temple University; University of Pennsylvania.

LEAH E. JORDAN (1962) *Professor of English*
B.A., Swarthmore College; M.A., Ph.D., University of Pennsylvania.

ALVIN S. KEINARD (1948)
Chairman of Geography Department
Professor of Geography
B.A., Juniata College; M.Ed., Ed.D., Pennsylvania State University.

ANNE S. KELLY (1952) *Instructor of Music*
B.A., Academy of Vocal Arts.

AMMON G. KERSHNER, JR. (1965)
Associate Professor of English
B.S., M.S., A.M., Ph.D., University of Pennsylvania; Temple University.

W. GLENN KILLINGER (1934) *Dean of Men*
Assistant Professor
B.S., Pennsylvania State University; M.A., Columbia University; D.S., Gettysburg College.

CHARLOTTE E. KING (1955) *Professor of Education*
B.S., Ed.M., Ed.D., Temple University.

EUGENE C. KOLACKI (1963) *Associate Professor of Health and Physical Education*
B.S., Brockport State College; M.S., Washington State University; University of Buffalo.

FRITZ K. KRUEGER (1961) *Assistant Professor of Music*
A.B., Midland College; B.S., B.Mus., Wittenburg University; B.Mus., Curtis Institute of Music; M.Mus., Philadelphia Musical Academy.

ALLA S. KUHLMANN (1965) *Associate Professor of Romance Languages*
M.A., University of Belgrade, Yugoslavia; Universite Catholique de Louvain, Belgium; University of Pennsylvania.

ALOIS H. KULHANEK (1961)
Assistant Professor of German
B.S., Institute of Technology, Prague; M.A., University of Political and Social Science, Prague; Charles University, Prague.

CARRIE C. KULP (1958) *Assistant Professor of Education*
A.B., Wheaton College; M.Ed., University of Delaware; University of Pennsylvania.

LUCILLE C. KYVALLOS (1962)
Assistant Professor in Health and Physical Education
B.S., Springfield College; M.S., Indiana University.

JOHN LANDER (1965) *Associate Professor of Education*
B.S., A.M., Temple University; Ph.D., University of Pennsylvania.

WILLIAM R. LANDRUM (1953) *Associate Professor of English*
B.A., Virginia Military Institute; M.A., Temple University; University of Oklahoma.

GEORGE L. LANGDON (1956) *Professor of Geography*
B.S., M.S., Pennsylvania State University; Ph.D., Clark University.

F. WILLIAM LEEDS (1963) *Assistant to the Dean of Academic Affairs Associate Professor*
A.B., Temple University; M.S., University of Pennsylvania; Post Master's, University of Pennsylvania.

JOHN D. LEMCKE (1965) *Assistant Professor of Health and Physical Education*
B.S., Brockport State College; M.Ed., Temple University; Temple University.

RONALD P. LOMBARDI (1962) *Assistant Professor of Romance Languages*
B.S., M.A., University of Pennsylvania.

ROBERT C. LONG (1964) *Associate Professor of Health and Physical Education*
B.S., Ed.M., Temple University; Pennsylvania State University; University of Pennsylvania.

MELVIN M. LORBACK (1957) *Associate Professor of Health and Physical Education*
B.S., State College, Brockport, N. Y.; M.S., Pennsylvania State University; Post Master's, Pennsylvania State University.

J. BARRY LOVE (1961) *Lecturer, Mathematics*
Hershey Junior College; B.A., M.A., University of Pennsylvania.

THOMAS A. LUEBKING (1962) *Assistant Librarian Instructor*
A.B., M.S., L.S., Villanova University.

CHARLES W. LYNCH (1965) *Associate Professor of Education*
A.B., Ohio Wesleyan; Harvard University; M.A., Columbia University; M.A., University of Pennsylvania; Rutgers University.

E. ISABELLA McCLURE (1965)
Associate Professor of Education
B.S., M.Ed., Temple University; Temple University; Columbia University; University of Pennsylvania; Stanford University; University of Washington; University of Rhode Island.

WILLIAM E. McDONALD (1965) *Field Consultant Language Project Instructor*
B.A., Hamilton College.

JAMES M. McDONNELL (1953) *Associate Professor of Biology*
A.B., M.A., Temple University; University of Connecticut.

ELLIOTT W. McDOWELL (1964)
Associate Professor of English
A.B., Centre College; M.A., University of Wisconsin; Yale University; University of Illinois.

WILLIAM A. McKENDRY (1965) *Lecturer, Education*
B.A., Gettysburg College; University of Pennsylvania; M.S. S.W., Columbia University.

DAVID E. McKENTY (1961) *Associate Professor of English*
B.S., Temple University; M.A., University of Pennsylvania; Post Master's, University of Pennsylvania.

* ROBERT D. McKINNEY (1952) *Associate Professor of Art*
B.S., Edinboro State College; M.Ed., Pennsylvania State University; Post Master's, Pennsylvania State University; University of New Hampshire.

CHESTER L. McTAVISH (1965) *Professor of Education*
B.S., Juniata College; M.S., Ed.D., Pennsylvania State University.

PEGGY JANE MACHTLEY (1965) *Assistant Librarian Instructor*
B.A., Wittenberg University.

SAUNDRA MANBURG (1964) *Assistant Professor of English*
B.A., M.A., Ohio State University.

ELI M. MANDELBAUM (1964) *Assistant Professor of Mathematics*
B.A., Temple University; M.A., University of Pennsylvania.

* Sabbatical Leave, Spring, 1966.

MARY M. MANEVAL (1956) *Professor of Sociology*
B.A., Pennsylvania State University; M.A., Ph.D., University of Michigan.

KATHERINE A. MARGERUM (1959)
Associate Professor of Health and Physical Education
B.S., West Chester State College; Ed. M., Temple University; Post Master's, Temple University; University of Colorado.

EMIL M. MARKOW (1965) *Assistant Professor of Music*
B.S., M.A., Teachers College at Columbia University.

ROLAND H. MAYSON (1963) *Assistant Professor of English*
A.B., Wilmington College; M.A., Kent State University.

ROBERT MELUCCI (1965) *Instructor of Chemistry*
B.S., University of Scranton; M.S., Virginia Polytechnic Institute.

EMIL H. MESSIKOMER (1946)
Director of Undergraduate Studies
Professor
B.S., West Chester State College; M.A., Columbia University; Temple University.

CHARLES M. MICKEN (1959) *Assistant to the Director of Student Teaching*
Professor of Education
B.S., Millersville State College; M.S., Ed.D., University of Pennsylvania.

* S. POWELL MIDDLETON (1935)
Assistant Professor of Music
B.S., West Chester State College; M.S., Duquesne University.

FRANK E. MILLIMAN (1960)
Associate Professor of Mathematics
B.N.S., College of Holy Cross; A.B., Hobart College; A.M., Columbia University; Post Master's, Columbia University.

KEGHAM A. MISSISSYAN (1964)
Associate Professor of Education
Aleppo College, Syria; B.A., American University, Beirut; M.A., University of Pennsylvania.

* Sabbatical Leave—Spring, 1966.

LLOYD C. MITCHELL (1936) *Chairman of Music Department*
Professor of Music

Morningside College; B.Mus., M.Mus., Peabody Conservatory of Music; Ed.D., Pennsylvania State University.

ROBERT M. MITTEN (1953) *Assistant Dean of Men*
Associate Professor of Health and Physical Education

A.B., M.A., University of North Carolina; Temple University.

W. HARDING MONROE (1964)
Assistant Professor of Geography

B.S., Bowling Green State University; M.S., Kent State University.

MICHAEL MONTEMURO (1965)
Associate Professor of Mathematics

B.A., La Salle College; M.A., Temple University; Temple University; Stanford University; Beloit College; Maryland University.

CLIFTON E. MORGAN (1956) *Assistant Professor of History*

B.S., East Stroudsburg State College; M.A., Rutgers, The State University of New Jersey.

LARUE N. MORGAN (1961) *Assistant Librarian, Instructor*
(Part-time)

B.S., Millersville State College.

MARY ANN MORGAN (1962) *Demonstration School*
Instructor of Education

B.S., East Stroudsburg State College.

ELIZABETH P. MORGANTHALL (1961)
Supervisor of Student Teaching
Assistant Professor of Education

B.S., Elizabethtown College; M.Ed., Pennsylvania State University; Boston University.

FRANK L. MUEHLMANN (1964) *Associate Professor of Chemistry*

B.S., M.S., Ph.D., University of Pennsylvania; Temple University.

EDWARD N. NORRIS (1958) *Associate Professor of Health and Physical Education*

B.S., West Chester State College; University of Kansas; M.S., Medical College of Virginia; Michigan State University; Temple University.

WILLIAM R. OVERLEASE (1963)
Associate Professor of Biology
B.S., B.S.F., M.S., Ph.D., Michigan State University.

JACK A. OWENS (1956) *Dean of Student Affairs*
Professor
A.B., Concord College; M.A., West Virginia University; Ed.D., Pennsylvania State University.

RICHARD J. PARKER (1964) *Associate Professor of Romance Languages*
B.A., State University College, Albany; M.A., University of Illinois; University of Michigan.

ARTHUR PARRIS (1964) *Associate Professor of Music*
Temple University; B.S., Juilliard School of Music; Paris Conservatory; M.A., Ph.D., Bryn Mawr College.

* CHARLES W. PATTERSON (1946)
Associate Professor of Education
B.S., Shippensburg State College; M.Ed., Duke University; University of Pennsylvania.

**FRANK E. PETERSON (1962)
Associate Professor of English
B.S., Edinboro State College; M.A., Columbia University.

FREDERICK C. PFLIEGER (1961)
Associate Professor of Music
B.S., West Chester State College; M.Mus., University of West Virginia; Eastman School of Music, University of Rochester.

HERBERT C. PHILLIPS (1963) *Associate Professor of Political Science*
B.F.A., Carnegie Institute of Technology; M.L., University of Pittsburgh; Post Master's, University of Pittsburgh.

ELIZABETH H. POTTIEGER (1965)
Assistant Professor of Education
B.A., Albright College; M.A., Temple University; West Chester State College.

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* Sabbatical Leave, Fall, 1965.

** Temporary Leave to assume post as Director, Intracollegiate Governmental Association, West Chester State College.

LORRAINE L. POWLUS (1961) *Assistant Professor of Health and Physical Education*

B.S., M.S., Florida State University.

WILLIAM J. RAHN (1965) *Assistant Professor of Education*

B.S., Villanova University; M.Ed., Temple University; Temple University.

THOMAS L. READ (1965) *Assistant Professor of Music*

B.M., Oberlin Conservatory of Music; M.M., New England Conservatory; Peabody Conservatory.

LESTER N. RECKTENWALD (1962) *Associate Professor of Education*

B.S., M.A., University of Minnesota; University of Wisconsin; Columbia University.

DAVID L. REDMOND (1963)

Assistant Professor of Education

B.S., West Chester State College; Syracuse University; Pennsylvania State University.

N. RUTH REED (1953) *Associate Professor of Health and Physical Education*

B.S., East Stroudsburg State College; M.Ed., Pennsylvania State University; University of Delaware.

ROBERT W. REESE (1951) *Director of Athletics*
Assistant Professor

B.S., East Stroudsburg State College; M.S., University of Pennsylvania; Temple University.

FRANCIS J. REYNOLDS (1961) *Professor of Chemistry*

B.S., Pennsylvania State University; Ph.D., University of Pennsylvania.

RUSSELL K. RICKERT (1956)

Chairman of Department of Sciences
Professor of Science

B.S., West Chester State College; M.S., University of Delaware; Ed.D., New York University.

GRACE A. B. RIDDLE (1965) *Assistant Dean of Women*
Assistant Professor

B.A., University of Washington; M.A., Columbia University; New York State University.

FRANCES W. RING (1960) *Assistant Professor of Art*
B.S., Columbia University; Ed.M., Temple University.

SARAH E. RIVOIR (1964) *Assistant Librarian, Instructor*
B.S., Temple University; M.L.S., Drexel Institute of Technology.

ALFRED D. ROBERTS (1959)
Chairman of Foreign Language Department
Professor of Romance Languages
B.A., Ursinus College; M.A., Ph.D., University of Pennsylvania.

MIGUEL I. RODRIQUEZ (1964) *Associate Professor of Romance Languages*
Ph.D., University of Havana; University of Miami.

JOAN C. ROKUS (1961) *Instructor of Health and Physical Education*
B.S., Pennsylvania State University; University of Wisconsin.

ROBERT E. ROMANELLI (1964) *Instructor of English*
B.A., Columbia Union College; M.A., Villanova University; Temple University.

ELEANOR B. ROSEMAN (1964) *Assistant Professor of German*
A.B., University of Pennsylvania; M.A., Indiana University.

B. PAUL ROSS (1946) *Director of Admissions*
Professor
B.S., M.S., Ed.D., Pennsylvania State University.

SARAH L. ROWE (1963) *Instructor of English*
A.B., Dickinson College; Drexel Institute of Technology.

GLENN W. SAMUELSON (1965)
Associate Professor of Sociology
A.B., Wheaton College; M.R.Ed., Eastern Baptist Theological Seminary; Ed.D., University of Maryland; University of Pennsylvania; Bryant and Stratton Business College.

MURIEL SANTMYERS (1965) *Field Consultant*
Language Project
Assistant Professor
B.A., Adelphi College; M.A., University of Pennsylvania.

HARRY G. SCHALCK (1964) *Associate Professor of History*
A.B., Ursinus College; M.A., Ph.D., Clark University.

ANNE M. SCHAUB (1929) *Assistant Professor of Health and Physical Education*
B.S., M.A., Columbia University.

ROBERT SCHICK (1961) *Professor of Music*
B.A., Swarthmore College; M.A., Columbia University; A.Mus.D., Eastman School of Music, University of Rochester.

JOSEPH WILLIAM SCHMITT (1965) *Lecturer, Health and Physical Education*
B.S., West Chester State College; University of Miami; Temple University.

DORIS R. SCHOEL (1963) *Assistant Professor of Public School Nursing*
R.N., Bryn Mawr Hospital; B.S. in Nursing, Villanova University; M.S. in Education, University of Pennsylvania.

EUGENE W. SCHOOLER (1961) *Professor of Economics*
B.S.. Fort Hays Kansas State College; M.B.A., University of Kansas; A.M., Ph.D., Harvard University.

NEVIN D. SCHULER (1962) *Professor of Education*
A.B., Juniata College; M.Ed., Ed.D., Pennsylvania State University.

OLIVE M. SEDINGER (1965) *Supervisor of Student Teaching Associate Professor*
B.A.. M.Ed., University of Pittsburgh; University of Pittsburgh.

RALPH C. SGAMBATI (1961) *Assistant to the Director of Undergraduate Studies and Director of Summer Sessions Assistant Professor of Computer Science*
B.S., West Chester State College; M.A., Villanova University.

HAROLD E. SHAFFER (1952) *Associate Professor of History*
A.B., Susquehanna University; Litt.M., University of Pittsburgh; Pennsylvania State University.

JANE E. SHEPPARD (1953) *Associate Professor of Music*
B.Mus., Westminster College; Juilliard School of Music; M.A., Columbia University.

IRENE G. SHUR (1956) *Assistant Professor of History*
B.S., Ohio State University; M.Ed., University of Delaware; University of Pennsylvania.

CAROLYN G. SIMMENDINGER (1958)
Associate Professor of Art
B.S., Kutztown State College; M.F.A., Temple University; Pennsylvania State University.

WILLIAM C. SKILLEN (1947) *Associate Professor of Science*
B.S., Temple University; M.S., University of Pennsylvania; Temple University.

KENNETH C. SLAGLE (1938)
Dean of Liberal Arts and Sciences
Professor of English
A.B., Mount Union College; M.A., Ph.D., University of Pennsylvania.

FRANK A. SMITH (1964) *Instructor of Physics*
B.S., Villanova University; M.A., Temple University.

JANE G. SMITH (1955) *Associate Professor of English*
B.S., Millersville State College; M.Ed., Pennsylvania State University; M.L.S., Columbia University.

ROBERT F. SMITH (1965) *Associate Professor of English*
B.S., St. Joseph's College; M.A., University of Notre Dame; University of Pennsylvania.

NORBERT C. SOLDON (1963) *Associate Professor of History*
B.A., M.A., Pennsylvania State University.

CHARLES A. SPRENKLE (1955) *Associate Professor of Music*
B.S., Johns Hopkins University; B.Mus., M.Mus., Peabody Conservatory of Music; University of Pennsylvania.

RUTH S. STANLEY (1959) *Assistant Professor of Mathematics*
B.S., M.A., University of Oklahoma.

JOHN ROBERT STEINMETZ (1965) *Assistant Professor of Health and Physical Education*
B.S., Temple University; M.Ed., Temple University.

RICHARD L. STRAYER (1956)
Associate Professor of Education
B.S., West Chester State College; M.Ed., University of Delaware; Temple University.

R. GODFREY STUDENMUND (1956) *Assistant to the Director of Admissions*
Associate Professor of Education
B.S., Shippensburg State College; Ed.M., Temple University.

RUSSELL L. STURZEBECKER (1946)
Chairman of Health and Physical Education Department
Professor of Health and Physical Education
B.S., West Chester State College; Ed.M., Ed.D., Temple University.

VINCENT V. SUPPAN (1964) *Associate Professor of English*
B.S., West Chester State College; M.A., Columbia University.

JANE B. SWAN (1965) *Associate Professor of History*
B.A., Swarthmore College; M.A., Ph.D., University of Pennsylvania.

ROY D. SWEET (1953) *Associate Professor of Music*
B.S., Fredonia State College; M.Mus., Eastman School of Music, University of Rochester; Temple University.

JULIAN M. SWIREN (1964) *Associate Professor of Education*
B.S., M.S., University of Pennsylvania; Temple University.

JOHN C. TACHOVSKY (1965) *Lecturer, Geography*
B.S., West Chester State College; West Chester State College.

WILLIAM A. TALLEY (1959) *Supervisor of Student Teaching*
Associate Professor of Education
B.S., West Chester State College; M.Ed., Harvard University.

ELINOR Z. TAYLOR (1955) *Assistant Professor of Health and Physical Education*
B.S., West Chester State College; Columbia University; Ed.M., Temple University.

NAN L. TAYLOR (1963) *Assistant Librarian, Instructor*
A.A., Grand Rapids Junior College; B.A., University of Michigan; M.S., Drexel Institute of Technology.

POWELL S. THOMAS (1946) *Professor of English*
B.A., Gettysburg College; A.M., Ph.D., University of Pennsylvania.

ANDREW R. THOMPSON (1965)
Assistant Professor of Geography
B.S., M.Ed., West Chester State College; Pennsylvania State University; University of Pennsylvania.

DAVID G. THURBON (1963) *Assistant Professor of English*
A.B., M.Litt., University of Pittsburgh.

WILLIAM W. TOWNSLEY, JR. (1964)
Associate Professor of Biology
B.S., Wheaton College; M.S., University of Delaware; Ph.D., University of Maryland.

WILLARD J. TREZISE (1938) *Dean of Graduate Studies*
Professor of Science
B.S., Lebanon Valley College; M.S., Ph.D., Johns Hopkins University.

MILAN TRNKA (1962) *Assistant Professor of Health and Physical Education*
A.B., Syracuse University; M.S., University of Illinois.

JOHN J. TURNER, JR. (1965) *Associate Professor of History*
A.B., Muhlenberg College; M.A., University of Rhode Island; Columbia University.

EDWARD T. TWARDOWSKI (1951) *Director of Placement*
Professor of Health and Physical Education
B.S., West Chester State College; M.S., University of Pennsylvania; Ed.D., Temple University.

JOY VANDEVER (1964) *Assistant Professor of Music*
B.S., M.Ed., West Chester State College.

RICHARD K. VELETA (1965) *Associate Professor of Music*
B.M., M.M., D.M., Northwestern University; University of Colorado.

SHIRLEY ANN WALTERS (1963)
Supervisor of Student Teaching
Assistant Professor of Education
B.S., Millersville State College; M.A., University of Michigan; Purdue University; Bucknell University.

YVONNE WANG (1965) *Lecturer, Health and Physical Education*
B.S., Taiwan Normal University, Taipei, Taiwan; West Chester State College.

JOHN W. WARD (1961) *Assistant Professor of English*
A.B., M.A., Miami University.

RICHARD P. WEAGLEY (1954) *Professor of Education*
B.S., Lebanon Valley College; M.Ed., D.Ed., Pennsylvania State University.

SOL WEISS (1964) *Associate Professor of Mathematics*
B.S., Brooklyn College; M.A., Columbia University; University of Southern California; Temple University.

THEODORA LEE WEST (1963) *Associate Professor of English*
B.A., University of Akron; M.A., Ohio State University; University of London; Ph.D., University of Pittsburgh.

W. BENJAMIN WHITTEN (1959) *Associate Professor of Music*
B.Mus., M.Mus., Peabody Conservatory of Music.

KENNETH R. WIDDALL (1961) *Dean of Administration Professor*
A.B., Wilkes College; M.A., Bucknell University; Temple University; Lehigh University; Ed.D., Columbia University.

MARK F. WIENER, JR. (1965) *Assistant Professor of Mathematics*
B.S., West Chester State College; A.M., University of Illinois.

HARRY WILKINSON (1948) *Professor of Music*
B.S., Temple University; Ed.M., Temple University; Ph.D., Eastman School of Music, University of Rochester.

LLOYD C. WILKINSON (1960) *Assistant Professor of Health and Physical Education*
B.S., West Chester State College; M.A., University of Miami; Villanova University.

LOIS M. WILLIAMS (1955) *Associate Professor of Music*
B.Mus., Western Michigan College of Education; Hochschule fur Musik, Cologne, Germany; M.A., Columbia University; Indiana University.

THOMAS B. WILLIAMS (1961)
Director of Counseling and Guidance
Professor
B.S., Salisbury State Teachers College; Ed.M., Ed.D., Temple University.

VALARIE K. WOLFE (1964) *Demonstration School*
Assistant Professor of Education
B.S., M.Ed., Shippensburg State College.

MILTON C. WOODLEN (1952)
Director of Research and Data Processing
Professor
B.S., Ed.M., Ed.D., Temple University.

JAMES J. WRIGHT (1945) *Professor of Music*
B.S., West Chester State College; Ed.M., Temple University; Ph.D., Eastman School of Music, University of Rochester.

DOROTHY I. YANISCH (1947) *Associate Professor of Health and Physical Education*
B.S., West Chester State College; Ed.M., Temple University.

RICHARD B. YODER (1962) *Assistant Professor of Health and Physical Education*
B.S., West Chester State College; M.S., Villanova University.

EDWIN L. YOUMANS (1960) *Professor of Health and Physical Education*
B.A., State College of Iowa; M.A., Ph.D., University of Iowa.

ROBERT J. YOUNG (1965) *Assistant Professor of History*
B.S., Temple University; M.A., University of Pennsylvania; University of Pennsylvania.

ELSIE B. ZIEGLER (1965) *Assistant Librarian, Instructor*
B.S., Elizabethtown College; M.S.L.S., Villanova University.

ISAIAH H. ZIMMERMAN (1965)
Lecturer, Music
B.S., West Chester State College; M.S., University of Pennsylvania; Temple University.

EMERITI

GEORGE CRESSMAN	*Department of Education, Emeritus*
KATHERINE M. DENWORTH	*Department of Education, Emeritus*
MARION FARNHAM	*Department of Art, Emeritus*
ROBERT B. GORDON	*Department of Science, Emeritus*
ANNE M. GOSHEN	*Department of Education, Emeritus*
THOMAS J. HEIM	*Department of Social Science, Emeritus*
MURIEL LEACH	*Department of Health and Physical Education, Emeritus*
GRACE D. McCARTHY	*Department of English, Emeritus*
DOROTHY RAMSEY	*Department of English, Emeritus*
HELEN RUSSELL	*Librarian, Emeritus*
GERTRUDE SCHMIDT	*Department of Music, Emeritus*
EARLE C. WATERS	*Department of Health and Physical Education, Emeritus*
EDWARD ZIMMER	*Department of Music, Emeritus*

COLLEGE ACADEMIC CALENDAR

1966 - 1967

FALL SEMESTER

Last day to qualify for admission	Monday, August 1
Faculty and Department meetings	Friday, September 9
Registration	
Part-time and Graduate Students	Saturday, September 10
Freshmen	Monday, September 12
Sophomores and Seniors	Tuesday, September 13
Juniors	Wednesday, September 14
Classes begin	Thursday, September 15
Thanksgiving Recess	
Begins—close of classes	Tuesday, November 22
Ends—8:00 a.m.	Monday, November 28
Chester County Institute	Monday, November 28
Christmas Recess	
Begins—close of classes	Saturday, December 17
Ends—8:00 a.m.	Tuesday, January 3
Final Examinations	Thursday, January 12 to Friday, January 20
Fall semester ends	Friday, January 20

SPRING SEMESTER

Last day to qualify for admission	Saturday, December 31 (1966)
Registration	
Freshmen	Wednesday, January 25
Seniors and Sophomores	Thursday, January 26
Juniors, Readmission, Transfer Full Time Special Students	Friday, January 27
Part-time and Graduate Students	Saturday, January 28
Classes begin	
Part-time and Graduate	Monday, January 30
Undergraduate	Monday, January 30
Spring-Easter Recess	
Begins—close of classes	Saturday, March 18
Ends—8:00 a.m.	Tuesday, March 28
Final Examinations	Thursday, May 18 to Thursday, May 25
Alumni Day	Saturday, May 27
Commencement	Sunday, May 28

SUMMER SESSION

1967

Pre Session ..... June 5 to June 23

Regular Session ..... June 26 to August 4

Post Session ..... August 7 to August 25

COLLEGE ACADEMIC CALENDAR

1967 - 1968

FALL SEMESTER

Faculty and Departmental meetings ..... Friday, September 8

Registration

Part-time and Graduate Students ..... Saturday, September 9

Freshmen ..... Monday, September 11

Sophomores and Seniors ..... Tuesday, September 12

Juniors ..... Wednesday, September 13

Readmission, Transfer and Special Students
Wednesday, September 13

Classes begin ..... Thursday, September 14

Thanksgiving Recess

Begins — close of classes ..... Tuesday, November 21

Ends — 8:00 a.m. ..... Monday, November 27

Christmas Recess

Begins — close of classes ..... Tuesday, December 19

Ends — 8:00 a.m. ..... Tuesday, January 2

Final Examinations ..... Thursday, January 11 to
Friday, January 19

Fall semester ends ..... Friday, January 19

SPRING SEMESTER

Registration

Part-time and Graduate Students ..... Saturday, January 20

Freshmen ..... Tuesday, January 23

Sophomores and Seniors	Wednesday, January 24
Juniors	Thursday, January 25
Readmission and Transfer Students	Thursday, January 25
Classes begin	
Part-time and Graduate	Monday, January 22
Undergraduate	Friday, January 26
Spring Recess	
Begins — close of classes	Saturday, March 16
Ends — 8:00 a.m.	Monday, March 25
Easter Recess	
Begins — close of classes	Thursday, April 11
Ends — 8:00 a.m.	Tuesday, April 16
Final Examinations	Thursday, May 16 to Friday, May 24
Alumni Day	Saturday, May 25
Commencement	Sunday, May 26

SUMMER SESSION

1968

Pre Session	June 3 to June 21
Regular Session	June 24 to August 2
Post Session	August 5 to August 23

WEST CHESTER STATE COLLEGE

The institution now known as West Chester State College has been part of Pennsylvania's education scene since the early years of the nineteenth century. The college traces its origin to the West Chester Academy, founded in 1812. Shortly after the Civil War the Academy developed into the West Chester Normal School, devoted to the preparation of teachers. The four-year program of teacher training came into being in 1927 when the Pennsylvania State Legislature broadened the Normal School into the West Chester State Teachers College. On January 8, 1960, the Legislature again enlarged the institution's status, naming it West Chester State College. This action opened the door for the College to become the multi-purpose institution it is today. Currently West Chester State College offers the B.S., the B.A., and the M.Ed. degrees.

Historically, the College has made its primary objective the preparation of teachers for the public schools of Pennsylvania. It now offers the degree of Bachelor of Science in Education with majors in four basic curricula — elementary, secondary, music, and health and physical education. Degree curricula for Public School Nurses and Dental Hygienists are also provided, and the College has a program of courses designed to meet certification requirements in the field of safety education and in the Special Education fields training for the teaching of mentally retarded and physically handicapped children.

In addition, West Chester maintains an extensive two-track program for teachers-in-service. One phase of the program is composed of late-afternoon, evening, and Saturday courses for those desiring to satisfy various professional needs, certification requirements among them. The second phase is a graduate program leading to the Master of Education degree in the following fields: elementary education, health and physical education, music education, English, social sciences, French, German, Spanish, biology, geography, mathematics, physical science and — pending Department of Public Instruction approval — chemistry, physics, guidance, and audio-visual education. Graduate study toward the M.Ed. degree may be pursued on a full-time basis during both the fall and spring semesters and the summer session.

The second major objective of the College program is to provide a liberal arts education for the youth of the Common-

wealth. To this end, the College was officially approved by the State Council of Education for the purpose of offering a liberal arts program, effective September, 1962. The four-year program now leads to a Bachelor of Arts degree in humanities, social sciences, natural sciences, and mathematics.

The continued growth and improvement of the College's curricular offerings is an ongoing concern of the Administration and faculty. Under the leadership of the Dean of Academic Affairs and the Curriculum Development Committee, periodic evaluations are made, with emphasis on both subject matter content and methods of teaching. Special ad hoc committees make continuous study of a broad range of curricular problems and report their findings and recommendations to the faculty and the Administration.

In the field of teacher education the great bulk of the College's program offerings has received Program Approval status from the Department of Public Instruction. This means that in the not too distant future the College will issue directly to its graduates the provisional certificate for teaching in those programs.

During the 1967-1968 academic year, the College anticipates its ten-year re-accreditation by the National Council for the Accreditation of Teacher Education and by the Middle States Association of Colleges and Secondary Schools.

The various programs at West Chester are comprehensive, designed to satisfy the intellectual, physical, and spiritual needs of all students. A wide span of extracurricular activities — lectures, concerts, entertainments, religious clubs, and undergraduate publishing among them — affords each student opportunities to enrich his personality and character, to mingle purposefully with his fellow students and his faculty, and to seek the fullest expression of his talents and potential capacities.

Location of the College

West Chester State College is situated in West Chester, the county seat of Chester County, Pennsylvania. A town of great charm and character, West Chester has a population of 16,000, and even though it is part of the growing suburban area of greater Philadelphia, it cherishes and preserves its unique historic tradi-

tions and heritage, tracing back to the years when William Penn established his Colony. West Chester, Chester County, and in turn the College continue to reflect the grace of an early culture deeply influenced by the Society of Friends.

Within a short distance from the campus are the famed Longwood Gardens, Valley Forge, and the Brandywine battlefield. Philadelphia, 25 miles to the east, and Wilmington, Delaware, 15 miles to the south, are accessible by train, bus, or car.

Of several arterial highways threading directly to West Chester, Route 100 is particularly suitable, especially for those approaching from the Pennsylvania Turnpike. Departing from the Turnpike at the Downingtown Interchange, the traveler drives nine miles directly to High Street and the West Chester campus by way of Route 100 South.

Those using public transportation may connect with Red Arrow buses at the 69th Street terminal in Philadelphia or with Short Line buses at the Paoli station of the Pennsylvania Railroad.

Campus Expansion

West Chester College in 1966 is nearing the halfway point of the most spectacular thrust of campus expansion in its history. The expansion is not merely one of boundaries and new buildings. It is also bringing a new dimension to the College's education techniques. In the span of the next six years West Chester will add a Learning Research Center, a second phase of its new Science Center, a Health and Physical Education Center, and a Language and Fine Arts Center — all of them designed and equipped to let future students make fullest use of methods and materials that are rapidly moving education into a new era and toward a new century.

The initial glimpse of this new West Chester came in the fall of 1965 when the first phase of the Schmucker Science Center, with its fine limestone columns, opened its doors, adding stature and beauty to the campus. Located on South Church Street and approached by an interestingly recessed terrace, the Center serves as a vast laboratory for the study of the biological sciences. It is a three-story, air-conditioned contemporary building with closed-circuit television, an amphitheater, a science museum, a rooftop greenhouse, laboratories, seminar rooms, research area and faculty offices.

Schmucker Science Center is far from the only addition which has brought a new look to the once placid campus, with its familiar quadrangle of green-hued serpentine-stone buildings. The new Francis Harvey Green Library now graces the quadrangle on West Rosedale Avenue, standing beside the old library. Two Y-shaped women's dormitories, looming seven stories high, change the campus skyline. A new two-story dining hall, completed late in 1964, has become an important part of the West Chester scene. Equipped to serve 2,400 students, as well as faculty and staff, its large student lounge, banquet hall, postal facilities, and snack bar make student life infinitely more convenient and pleasant.

In the spring semester of 1966, students grew accustomed to the sight of a new 500,000 gallon water pedisphere, reaching high into the sky, which will provide adequate water under proper pressure for the new high-rise dormitories. In the same semester, 75 faculty members and staff moved into spacious new air-conditioned offices added to the third floor of Anderson Hall.

These and other emerging changes are elements of the long-range expansion plans developed out of the endeavor known as the 1960-1972 Comprehensive Plan for West Chester State College. The program will involve an estimated expenditure of $45,000,000, and when it is fully completed the College will have grown in size from 263 acres (in 1965) to approximately 350 acres. And it will be equipped to meet the needs of a projected enrollment of 5,600 full-time students, 3,800 of whom will live on campus in newly constructed dormitories.

Land owned by West Chester State College may be divided into two major areas: North Campus and South Campus. Presently, North Campus accommodates most of the instructional, academic, recreational, and student activity programs. However, current and future demands upon the 69 acres of North Campus for classrooms, dormitories, dining halls, parking areas, and student activity facilities have so encroached on existing outdoor areas as to make their replacement a major item in the Comprehensive Campus Plan.

South Campus will be expanded greatly as its development progresses. A unique feature will be its outdoor band shell, serving to enrich the cultural pursuits of the student body, the Greater West Chester community, and the general southeastern service

area of the Commonwealth. A $400,000 allocation for a South Campus seating project is encompassed in the 1965-1967 capital budget. New multi-purpose fields on South Campus were put to their first use in the spring of 1965. Still on the drawing boards is the Health and Physical Education Center, budgeted for $4,000,000. It will be the heart of South Campus and will permit the College's Health and Physical Education Department to introduce vastly improved techniques in both training and research. Among the specifications which will make it a unique training area are a six-gymnasium complex, allowing the playing area to be adjusted from small units up to the maximum; a U-shaped swimming pool which will have a shallow side and a deep side, both converging at a diving well; sauna baths; a self-contained environmental chamber; a physiological research laboratory; and air-conditioned classrooms, faculty offices, administrative suite, dance studios, and a student lounge.

In the planning stages for North Campus are the Language and Fine Arts Center, the Learning Research Center, and Phase II of the present Science Center. Phase II, for which about $2,000,000 has been allotted, will include an observatory and a planetarium and will be a "laboratory of tomorrow" for the teaching of all branches of the physical sciences. Other projects, including a maintenance building, parking areas, a second dining hall, and three additional dormitories accommodating 1,200 students are in various stages of progress.

Students enrolled for the 1966 fall semester will be charter users of the new Francis Harvey Green Library, a two-story, air-conditioned building of contemporary modular design. Among other things, it will have an unusually large reading area, tinted windows to reduce glare, technical processing areas, an audio-visual classroom, an area for displays and exhibits, a juvenile room, student and faculty carrels, student and staff lounges, a seminar room, and a semi-private typing area.

Additionally, some 890 women students enrolled in the fall of 1966 will be the first to enjoy the accommodations of the two new dormitories for women. Open terraces off each wing, paneled lobbies, numerous study rooms, television rooms, laundries, abundant storage areas, and built-in furniture wherever feasible are among their attractive features. Pleasingly contemporary in design, the two high-rise structures bring an important definition to the North Campus landscape. A third Y-shaped dormitory, six

stories high, which will house about 380 students, is marked for completion by the fall of 1967. Like the others of the trio, it will front on Sharpless Street.

Francis Harvey Green Library

With the fall semester of 1966 the Francis Harvey Green Library will be established in its handsome new building where its varied and extensive services will be maintained in a setting so different from the old one that the West Chester student will find his library hours an utterly new experience. Space, beauty, convenience, and modern equipment play their part in the new Francis Harvey Green Library as it becomes a major link in the new buildings transforming West Chester into a larger more modern institution. The previous pages, titled "Campus Expansion," describe the new library in some detail.

The new building fronts on the quadrangle and is adjacent to the old library, which will be used for reference materials and special services.

In addition to a collection of approximately 115,000 volumes, the Francis Harvey Green Library has an enviable collection of microfilm and microfische and subscribes to more than 700 periodicals and newspapers. It also has the four folios of Shakespeare's plays (1623-1685), and the Sanderson **Biographies of the Signers of the Declaration of Independence,** with autographs of the signers. Its collection of sheet music, scores, and records is housed in Swope Hall. The library is affiliated with the Union Library Catalogue of the Philadelphia Area.

The College's library has had its present name since 1947 when it was dedicated to Dr. Francis Harvey Green, former chairman of the English Department. The old library was built in 1902.

Department of Research & Data Processing

The Department of Research and Data Processing was activated in September, 1964 to provide the organizational framework for the development of three component areas—instruction, research, and service. The development of a new instructional area was initiated by the addition of an IBM 1620 Electronic Computer to the College facilities. A research area had been in functional operation for more than a year as the result of the College having

been designated to administer a state-wide investigation on the utilization of programmed learning materials. The service area originated in a previously established unit record processing facility.

The prime purpose in procuring a computer and related electronic equipment is to enlarge the instructional program of the College. This instructional expansion is conceived as a two-pronged program—the offering of courses in computer technology and the development of computer-related courses within the existing academic departments. Computer Science instruction as presently planned comprises a sequence of three courses—Basic Computer Science, Computer Programming, and Numerical Analysis—to be offered to students interested in developing competencies in this new field of technology. The courses are open to students in all fields.

The College has been the administrative center for conducting two broad-scale research investigations in classroom methodology in conjunction with the U. S. Office of Education, the Department of Public Instruction, and numerous public school districts. An experimental inquiry into the effective utilization of programmed learning materials in first year Algebra involved 4700 students on a state-wide basis. A Pilot Project on the individualization of instruction in the elementary school using Spelling as the subject area included 1200 pupils in four southeastern counties. In addition to the Cooperative Research investigations, the College is also endeavoring to encourage individual research projects initiated by faculty and students. The availability of the computer facility as a research tool and the establishment of the Department of Research and Data Processing are the result of this attitude and should effectively motivate the expansion of experimental research activities on campus. The College will also utilize the added facilities for institutional research to provide background data for administrative policy and decision.

In 1959 the College began acquiring automated data processing equipment. Additional machines procured during the succeeding years were supplemented with photo offset reproduction equipment. The recently completed relocation of these facilities together with the computer installation into a centralized administrative responsibility is designed to further the development of a Unit Record System for student and fiscal accounting operations. In conjunction with the Undergraduate and Graduate offices, a record system is being devised to furnish centralized information

and data processing services to such administrative operations as admissions, registration, scheduling, student affairs, placement, and similar functional areas. Further, in conjunction with the Business Office unified procedures in fiscal accounting will be developed in such areas as inventory, payroll, purchasing, budgeting, and related matters.

The Pennsylvania Regional Film Library

The College operates a film library service for the schools in the service area surrounding West Chester. The service includes rental of films, film-strips, and projection equipment. All schools and religious organizations in Bucks, Chester, Delaware and Montgomery Counties are eligible for these services.

The library was established through the State Department of Public Instruction. It maintains some 150 titles on 16 mm. motion picture film and over 500 titles on filmstrip.

Further information can be had by correspondence with: The Pennsylvania Regional Film Library, West Chester State College, West Chester, Pa., 19380.

The Delaware-Chester Regional Instructional Materials Center

The Delaware-Chester Regional Instructional Materials Center is housed on the College campus. This two-County Center has nearly 2,800 films dealing with many fields of secondary and elementary education. The Center is the first joint Regional Center to be formed in the State of Pennsylvania under a State supervised plan.

Membership in the Center is limited to the public schools of the two Counties, who pay on a per pupil basis. There are 57 school districts now belonging, with a pupil enrollment of nearly 100,000.

College faculty and student teachers may make use of the facilities of the Center. Requests for materials may be made through the College Film Library in room 13, or through the Delaware-Chester Center in room 16, Anderson Hall.

Placement Services

The West Chester State College maintains an active Placement Service for its graduates. The Placement Director has gen-

eral charge of the service. He is assisted in this work by the Undergraduate Office, the Liberal Arts and Sciences Office, the Graduate Office, heads of major curriculum areas, student teaching supervisors, and other faculty members.

Its purpose is to assist the graduates in obtaining desirable positions related to their interests and education. It renders assistance to school officials in locating qualified teachers to fill vacancies in the schools of the Commonwealth. Contact with industry, Civil Service, and the business world is maintained for the benefit of the Liberal Arts and Sciences graduates.

Counseling is offered to all students and graduates in career planning, opportunities, and employment trends. A library of information about career opportunities, area schools, job-training programs, Civil Service careers, job requirements, and application forms and procedures is available. Group orientations for senior students are conducted periodically.

Meetings between applicants and potential employers are arranged by mail and by telephone. Private facilities on campus are made available for interviews and conferences.

Appropriate follow-up research is conducted periodically with graduates and their employers.

Summer Sessions

West Chester State College offers a program of study for both undergraduates and graduates at summer sessions extending through twelve weeks. The sessions are divided into three periods: the Pre Session of three weeks, the Regular Session of six weeks, and the Post Session of three weeks.

No student will be allowed to secure more credits than the number of weeks in a session except by special permission of the Dean of Academic Affairs (for undergraduates) or the Dean of Graduate Studies (for graduates).

Detailed information about the Undergraduate Studies summer program may be obtained from the Director of Summer Sessions. Requests for similar information about Graduate Studies should be directed to the Dean of Graduate Studies. In either case the address is West Chester State College, West Chester, Pennsylvania 19380.

ADMISSION TO THE COLLEGE

Students who expect to attend college should take the college preparatory or academic course in secondary school. The secondary school graduate, equipped with good marks in such a course, has an adequate background for college work. Technically, students who graduate from other curricula may qualify for admission to West Chester providing their records are good, but certain deficiencies in their preparation will mean that they must spend more time and greater effort than the student who has prepared for college with an academic course.

I. Students will be admitted to the College on the basis of satisfactorily meeting the following requirements:

A. Satisfactory scholarship and evidence of graduation from an approved secondary school, or equivalent preparation as determined by the Credentials Evaluation Division of the Pennsylvania Department of Public Instruction.

B. All candidates for admission to West Chester State College must take the Scholastic Aptitude Test and the English Composition Achievement Test of the College Entrance Examination Board. *Junior* year scores or *Senior* year scores will be accepted.

A candidate who has made satisfactory scores on the Scholastic Aptitude Test (SAT) may be provisionally approved for admission, subject to making satisfactory scores on the required achievement tests at the next administration of the tests.

Applicants who make very high achievement scores on the English Composition Achievement Test may be exempted from the first required course in English composition. Applicants scoring low on this test will be required to take a remedial English course during the summer session prior to matriculation or during the first semester of the freshman year. This remedial course will not carry credit toward graduation.

The scores should be sent to the Director of Admissions at West Chester State College directly from the headquarters of the College Entrance Examination Board in Princeton, N. J.

The College Board examinations are offered in December, January, March, May, and July, but applicants who take the SAT tests not later than January will be given preference in admissions for September. Students who apply for admission to the Secondary Education Curriculum and the Liberal Arts and Sciences Curriculum must also take the Achievement Test corresponding to the student's intended major field.

Applicants for admission to *all* curricula are urged to take one Achievement Test of their own choosing in addition to the required English Composition Test. Achievement tests may be taken not later than March except for one-year subjects, i.e., chemistry, physics, etc., which may be taken in May.

Application forms and all necessary information for taking the examinations may be obtained from high school guidance counselors or directly from the College Entrance Examination Board, P.O. Box 592, Princeton, N.J.

C. Satisfactory character and personality traits as well as proper attitudes and interests as determined by the high school principal, guidance director, or other school official acquainted with the student.

D. Good health and physical condition as evidenced by a health examination by the student's family physician, reported on a form supplied by West Chester State College.

Applicants may be rejected if they suffer from various incurable diseases or incurable physical or nervous impairments so serious as to prevent them from pursuing their studies independently and competently.

E. Recommendations of college staff members following an interview or conference with the applicant. Particular attention will be paid to personality, speech habits, social presence, expressed interests, and promise of professional development. Generally, only those students who can meet the academic requirements for admission will be invited to come to the College for interviews; however, an invitation to come

for interviews is not to be interpreted as meaning the student has met the academic requirements for admission.

F. In addition to the College Board Tests, a student desiring admission to the Music Education curriculum must pass the Music Qualifying Tests offered by the Department. (See IV below.)

G. For admission to the Health Education Curriculum, a student must meet the conditions stated in V below.

II. Foreign languages are not required for admission, but are recommended for those who elect them as areas of specialization in college.

III. To elect mathematics in College, students must present three high school units of mathematics including algebra and plane geometry.

IV. Special requirements for admission to the Music Education Curriculum.

Special attention will be given to the promise of professional development and musical ability of the candidate as shown by:

A. The ability to sing songs with acceptable voice and interpretation;

B. The ability to sing hymns and folk tunes at sight with a fair degree of accuracy and facility;

C. Applicants whose major instrument is piano must give evidence of mastery of fourth grade material;

D. Applicants whose major instrument is other than piano must give evidence of mastery of second grade material in piano, or, lacking this requirement, should demonstrate sufficient musical ability to remedy this deficiency.

E. Students whose major performance area is instrumental should perform on an instrument in the Music Qualifying Tests. The following are considered to be *major* orchestral instruments—violin, viola, 'cello, bass, trumpet, trombone, tuba, French horn, oboe, English horn, flute, clarinet, and bassoon. The Music faculty will audition any student who is desirous of

enrolling in the Music Education curriculum on any instrument. However, the marimba, saxophone, accordion, drums, etc. are *not* considered acceptable as a major performance area instrument.

NOTE: The abilities, as stated above, will be determined by special tests in sight singing, ear training, voice, piano, and musical instruments. These tests are administered at stated times during the year. Candidates will be notified by the Director of Admissions when to come to the College for the tests.

V. Special requirements for admission to the Health and Physical Education Curriculum.

The student must have participated in both the required physical education classes and the extracurricular athletic program of his secondary school. The extent of participation in the latter along with evidence of active interest in other leadership areas will be evaluated in the pre-admission departmental interview.

VI. A student must be a citizen of the United States to be eligible for a teacher's certificate in Pennsylvania.

Evidence of Character

All applicants for admission shall present evidence of good moral character.

Evaluation of Credentials

Credentials of all students entering the West Chester State College on the basis of an approved secondary school preparation are evaluated by College officials; students not having an approved preparation or students whose preparation is irregular, shall have their credentials evaluated by the Credentials Evaluation Division, Department of Public Instruction, Harrisburg, Pennsylvania.

Last Day for Admission of New Freshmen

All applications must be completed not later than August 1 for the fall semester or December 31 for the spring semester. Admissions will be closed prior to these dates if enrollment quotas become filled.

Application for Admission

High school seniors who desire to enroll for a semester beginning in September should fill in the Request for Application Forms found at the back of this catalogue and send it to the Director of Admissions in July or August preceding the senior year in high school or as soon thereafter as possible. Complete application forms and instructions will be mailed to all persons who file a request. The Director of Admissions will continue to accept applications for admission, College facilities permitting, throughout the winter and spring of the year in which admission is desired.

A student who desires to enroll for a semester beginning in January should, about October 1 but not later than November 1, fill in the Request for Application Forms found at the back of this catalogue and send it to the Director of Admissions. Complete application forms and instructions will be mailed upon receipt of the request. January applicants must take the required College Board tests not later than the preceding July.

Readmission of Former Students

Students who have attended West Chester State College and who have withdrawn for acceptable reasons may direct a request to the Admissions Office for an "Application for Readmission." Those who have attended any institutions of higher learning since leaving West Chester must request such institutions to forward transcripts of their record to the Director of Admissions at West Chester.

Students who expect to enroll in student teaching in the first semester of their readmission must file an application for student teaching with the Director of Student Teaching at least four months before the date they expect to enroll.

Students who were dismissed or asked to withdraw for academic reasons and those who withdrew from the College with a below average academic record, will not be considered for readmission for at least one *academic semester.* Details may be secured from the Director of Admissions.

All readmission applications must be filed not later than August 1 for the fall semester or December 31 for the spring semester. Admissions will be closed prior to these dates if enrollment quotas become filled.

Admission of Special Students

Graduates of other colleges who wish to complete the requirements for a teacher's certificate may apply for admission as special students. Application forms and information may be secured from the Director of Admissions. Applications and credentials must be filed not later than August 1 for admission to the fall semester, nor later than December 31 for admission to the spring semester. Admissions will be closed prior to these dates if enrollment quotas become filled.

Special students seeking teaching certification at the West Chester State College should make application for student teaching immediately after receiving a letter of admission to the College. Approval for student teaching will depend upon the satisfactory completion of the pre-requisite professional education courses. Only those who apply early will have a student teaching station reserved. Student teaching application forms may be secured from the Director of Student Teaching, Room 104, Anderson Hall.

Admission of Transfer Students

1. Students who have been enrolled in any institution of collegiate rank, regardless of length of time attended, are classified as transfer students.

2. Students who were dismissed or asked to withdraw for academic reasons and those who withdrew from college with a below average academic record (2.00 G.P.A.), will not be considered for admission for at least one *academic semester.*

3. Transfer students must complete admissions procedures by August 1 for admission to the fall semester, and by December 31 for admission to the spring semester. Admissions will be closed prior to these dates if enrollment quotas become filled.

4. An applicant must file transfer application forms, obtainable by mail from the Admissions Office, and must have the following sent directly to the Director of Admissions, West Chester State College, West Chester, Pennsylvania, 19380:

    a. An official transcript of the applicant's record at each institution attended. To be acceptable, transcripts *must* show an honorable dismissal. If a preliminary (incomplete) transcript is filed, it is the student's responsibility to have a final transcript, which includes final grades for

the most recent courses scheduled, sent to the Admissions Office.

b. A letter of recommendation from the Dean of Men (for men) or the Dean of Women (for women) of the last college attended as a *full-time* student.

c. Two letters of recommendation from well-known persons (not relatives) in the applicant's home community.

d. A letter, written by the applicant, explaining frankly and fully the reasons for wishing to transfer to West Chester State College.

e. A fee of ten dollars with money order or cashier's check (not a personal check or cash) made payable to the "Commonwealth of Pennsylvania" and sent to the College Business Office. No review of an application will be made unless the fee has been received by the Business Office. THIS FEE WILL NOT BE REFUNDED for any reason whatsoever.

f. Transfer students with four or less semesters of college experience, and those with more than four semesters whose scholarship record has not been entirely satisfactory, must file scores for the College Board Scholastic Aptitude Test.

5. It is the student's responsibility to contact the Admissions Office for an appointment to complete the required interviews. This appointment should be made after an application, including a transcript, is on file.

6. Transfer students who qualify for admission may be approved by the Director of Admissions provided the classes to which they should be assigned are not filled by students already enrolled in the College. Students other than commuting will be approved only if residence facilities are available under current College regulations.

7. Students enrolled in other colleges or universities as freshmen during the fall semester cannot be considered for admission to West Chester for the spring semester.

8. When an application *has been completed* in the Admissions Office, it will be re-examined and the applicant will be informed concerning its status or the action taken on it.

Advanced Credit and Resident Credit Requirements

Advanced credit may be granted for equivalent courses in accredited institutions of collegiate grade, but no student may be graduated without earning the last 30 semester hours of credit on the West Chester State College campus.

Courses offered for transfer of credits will not be accepted if the marks for those courses are the lowest passing marks of the institution assigning them. If "D" is the lowest passing mark, courses so marked will not be accepted. If numerical marking is used, courses will be accepted when the grade is 10 or more points above the passing mark.

West Chester State College does not allow credit for courses taken through correspondence.

Pre-Admission Policy

Not more than nine semester hours of course work completed at West Chester State College prior to formal admission to a program will be credited toward a program. A minimum grade of "C" must be attained in order to obtain degree credit for such pre-admission courses.

POLICY ON EARLY ADMISSIONS

I. Early admissions is interpreted to mean the admission of certain students to college freshman classes after they have completed the *junior* year of high school. It is not a procedure for admitting all juniors who have high academic marks. Other factors, which are indicated below, must be evaluated to determine whether a student is prepared for college work and college life without the benefit of the senior year in high school.

The objective of this Early Admissions policy is to provide an opportunity for high school students with high academic ability, achievement, and personal development to undertake a college program when it is evident they will benefit more from it than from the senior year in high school.

II. Early Admission Requirements

A. Academic qualifications:

1. Completion of the junior year of an accredited high school;

2. College preparatory course in grades nine, ten, and eleven with five major academic subjects each year;

3. Rank in the upper 5% of the class (ranking to include only academic marks for grades nine, ten, and eleven);

4. College Board Examinations:
SAT—600 minimum score on *each* part;
English Composition—600 minimum score;
Two elective achievement tests—600 minimum score;

5. The chairman of the department to which the applicant desires admission will determine what additional achievement or skill tests will be required and the minimum acceptable achievement on such tests.

B. Recommendations:

1. The high school principal must highly recommend the student for early admission;

2. The guidance counselor of the high school must highly recommend the student for early admission;

3. The high school department head of the subject area in which the student wishes to major in college must highly recommend the student for early admission.

Recommendations are to include specific statements concerning the following:

1. Physical development;
2. Emotional maturity;
3. Social maturity;
4. Personality;
5. Study habits;
6. Motivation.

C. Interviews (Applicants will be notified of appointments by the Director of Admissions.)

The applicant shall be interviewed by:

1. The Director of Admissions;
2. The Chairman of the department in which the student desires to enroll;
3. The Dean of Men (for boys) or the Dean of Women (for girls).

III. Approval or rejection of an applicant for Early Admission shall be the responsibility of the Director of Admissions after recommendations have been received from the department Chairman and the Dean of Men or the Dean of Women.

IV. Applications shall be made to the Director of Admissions not later than June 1. Instructions and forms will be supplied by him.

CLASSIFICATION OF STUDENTS BY YEAR OF STUDY

Students in the College are classified according to the number of semesters hours of credit which they have earned:

Freshmen	31 credits or less
Sophomores	32-63 credits inclusive
Juniors	64-95 credits inclusive
Seniors	96 credits or more
Special	Those who are not working on a degree program or who are so classified for other reasons.

Marking System

The marking system now in effect at the West Chester State College is as follows:

Mark—Interpretation	Percentage Equivalents	Quality Points
A—Excellent	A—90-100	4
B—Superior	B—80- 89	3
C—Average	C—70- 79	2
D—Below Average	D—60- 69	1
E—Failure with re-examination privilege		
F—Failure	F—59 or lower	0
I—Incomplete (See "Special Provisions".)		
WF—Withdrew Failing		
WP—Withdrew Passing		
W—Withdrew		

Percentage Equivalents

For those who prefer to think of the marking in terms of figures, it has been determined that each letter represents the range of per cents shown in the second column.

Scholastic Index:

The minimum scholastic index required to remain in good academic standing and for graduation is a 2.00 (C average) for all work taken at the College. This index is obtained by dividing the total credit hours into the total quality points.

Scholastic Index = Total Quality Points ÷ Total Credit Hours

Explanation:

The marking system provides that a "C" be interpreted as the average accomplishment, a "B" as accomplishment superior to the average, and an "A" very superior or exceptional work. A mark of

"D" represents accomplishment inferior to the average and indicates the lowest type of work that will be accepted as of passing grade.

An "F" grade is recorded when:

1. A student fails to make a passing mark in a course for which he has registered.
2. A student drops a course without official permission.
3. A student drops a course with official permission but is doing unsatisfactory work.
4. A student is not doing passing work at the time of withdrawal from college.

A student who fails a course must repeat it.

Special Provisions Related to the Marking System:

If because of personal illness certified by a physician or other approved reasons, a student is not able to meet the requirements of a course at the close of a semester, a mark of "I" may be assigned by the instructor. This mark indicates that the work is incomplete. This work must be completed satisfactorily by the end of the ninth week of the semester following the giving of the mark. Failure to meet this requirement will result in the "I" grade being changed to an "F." In no case is a student given a mark of "I" in any course when the cause of incomplete work is irregular attendance, negligence, unexcused absence from final examination, or inability to do college grade work.

When a student fails a course by a margin so close that the instructor believes that a re-examination is justified, the student may be marked "E". In all cases where an "E" is assigned, the student may take the re-examination by the end of the ninth week of the semester following the giving of this mark. The final mark for an "E" (re-examination privilege) cannot exceed a "D". Failure to meet this requirement will result in the "E" being changed to an "F" on the permanent record card.

Academic Probation: Maintenance of Minimum Standards

1. All students are expected to maintain a 2.0 index ("C"). Failure to do so, automatically places them on probation.

2. All work taken during a student's enrollment in the College will be included in computing the overall scholastic index. Grades from other colleges will not be included in computing the index.

3. Students must attain the following scholastic index to remain in College:

   a. At the beginning of the sophomore year—1.60

   b. At the beginning of the junior year—1.80

   c. At the beginning of the senior year—2.00

   Failure to attain these averages will result in automatic dismissal.

4. Students dismissed from College at the end of the spring semester for academic reasons shall lose all housing privileges (room reservations) for the fall semester despite the fact that such students attend summer sessions and are readmitted for the fall semester.

5. Freshmen who have a scholastic index of less than 1.60 for their first semester may, at the discretion of the Academic Standards Committee, be required to withdraw.

6. Transfers and readmissions accepted on probation shall be admitted for one semester. To continue thereafter, their cumulative grade point averages for courses completed at West Chester shall be 2.00, "C" average, or better.

7. *Any student dismissed for academic reasons for a second time automatically terminates his college career at West Chester.*

8. A student with a semester scholastic index of less than minimum requirements may be restricted by the Director of Undergraduate Studies in the number of semester hours credit he may carry.

9. A student may repeat any course for which a "D" grade was received. The following regulations will prevail:

   a. Only one course may be repeated each year; it must be taken in one of the summer sessions.

   b. The repeat grade will stand as the final grade for graduation.

c. The original grade will not be erased from the permanent record of the student.

10. The recommendations of the department chairmen and the Dean of Women or the Dean of Men will be considered when the question of the dismissal of a student is being considered.

11. Notices concerning academic probation and dismissal shall be sent by the Director of Undergraduate Studies to the following:

a. The parents
b. The faculty
c. Dean of Women
d. Dean of Men
e. The Business Office
f. Student Activities Association
g. Dean of Student Affairs
h. Registrar
i. IBM Office

12. Students dropped for failure to achieve the required academic average will be permitted to attend summer and/or evening sessions as necessary to attain the required average by September 1.

a. Students who have been dropped and who fail to qualify for readmission by September 1 following attendance at summer school will not be eligible to apply for readmission for at least one regular, academic semester.

b. The student is not required to attend another college as a prerequisite for readmission.

c. A student may enroll as an "unclassified" in the summer school or may attend another college or university. However, the Director of Undergraduate Studies must approve in advance the college or university and the courses to be taken.

d. *Readmission:* Applications for readmission to the College must be completed and returned to the Director of Admissions prior to August 1 or December 31. All applications for readmission are subject to review and approval by the Dean of Men or Dean of Women, the Director of Undergraduate Studies, and the Committee on Academic Standards.

e. Any student dismissed for academic reasons and readmitted to the College must maintain at least a 2.00 scholastic index each semester subsequent to readmission in order to remain in College.

Reports to Parents

The office of the Registrar will mail a report of each student's marks to his parents or guardian after the close of each semester. This requires approximately 15 days after all grades are reported by the faculty.

Honors Lists

The Honors Lists will be published at the close of each semester.

High Honors List—Scholastic Index of 3.50—4.00
Honors List —Scholastic Index of 3.00—3.49

Students maintaining the above averages during the student teaching semester will be placed on separate High Honors and Honors Lists.

To qualify for the Honors List on the commencement program a student must have completed 96 semester hours at West Chester State College.

Credit by Examination

A student in good academic standing may request opportunity to take a comprehensive examination in a particular course offered by the College. Such a request must be filed in duplicate and during the first two weeks of a semester on a form secured from the office of the Director of Undergraduate Studies. Requests will be reviewed by the College department involved and the Director of Undergraduate Studies. Permission to take such an examination requires demonstration by the individual of mastery in the field. If the request is approved, the student will register for the course in the usual way and will be permitted to audit the class if he desires. If credit by examination would involve an overload, the student must have "Honors List" standing. The semester hours of credit earned by examination will apply toward graduation requirements.

Advanced Placement Program

Courses taken before admission to college under the Advanced Placement Program conducted by the Educational Testing Service, Princeton, New Jersey, may be applied towards graduation requirements by students who are admitted to the college to pursue one or more semester's work. To secure such credit the student must make formal application to the office of the Director of Undergraduate Studies. The course must satisfy college requirements and the score on the Educational Testing Service examination must be satisfactory to College officials. If request for Advanced Placement standing is approved, the student will register for the course and pay the established fee. Not more than fifteen (15) credits earned by such examination may be applied toward graduation requirements.

The Educational Testing Service does not handle this program but cooperates in certain matters concerning it. Information can be received from Advanced Placement Program, College Entrance Examination Board, 475 Riverside Drive, New York 27, New York. However, all correspondence concerning the examinations should be addressed to College Board Advance Placement Examinations, Box 592, Princeton, New Jersey.

Student Teaching

Student teaching is to be taken in the seventh or eighth semester and normally culminates the professional experience in preservice preparation for teaching. Students should file applications for admission to student teaching during the spring semester of their junior year. An announced meeting is held in February for this purpose.

To be eligible for student teaching, candidates must have senior standing (96 semester hours), a scholastic index of 2.00 (C) or higher and have completed all course work required in the first six semesters.

Applications for admission to student teaching are reviewed by the department or departments in which the applicant wishes to secure certification, by the Director of Undergraduate Studies, and by the Director of Student Teaching. Application must be made at least one semester prior to student teaching.

Remedial Instruction

New students whose records are low on the College Board English Achievement Examination required of all incoming students may be required to carry fewer semester hours of credit than a normal class load and may be required to attend without credit remedial classes in English and/or Reading.

Resident Credit Requirement

The last thirty (30) semester hours of credit must be taken at West Chester to qualify for graduation from a degree curriculum. Resident credits may be earned in day, evening, and Saturday classes which are offered on campus.

Class Attendance

Regular and punctual attendance at classes is considered essential to sound scholarship and good campus citizenship. Upon enrolling in the College, each student is supplied with a student handbook which contains a statement of the absence policy. Enrollment in the College implies agreement on the part of the student to conform with its provisions.

Withdrawal From College

The student must notify the Director of Undergraduate Studies in writing, stating the reason for his intention of withdrawal from the College and the date of his withdrawal.

Should a student fail to comply with this requirement, the administration will, after ten days of unexplained absence, declare the student not a member of the College. The date on which his connection with the College terminates will be the day on which he last attended classes.

When a student discontinues his work at the College, either for illness or any other reason, he must notify the Director of Undergraduate Studies as soon as possible; otherwise he will receive marks of "F" in each of his courses on his permanent record card. This will result in difficulty in re-entering the College or in securing admission to another institution.

Transcripts

Applications for official transcripts should be made to the Office of the Registrar.

A copy of the student's entire record (a transcript) is attached to his application for certification in the State of Pennsylvania. This transcript is provided free of charge.

There is a fee of one dollar for the second and each subsequent transcript. Checks must accompany requests and should be made payable to the Commonwealth of Pennsylvania.

Transcripts are considered *official* only when sent directly to the school or college authority who is to evaluate and/or record them. Therefore, transcripts sent to students are *not* official and do not bear the state seal. Most states and most school and college authorities accept only *official* transcripts.

Names and addresses to whom transcripts are to be mailed should be included with applications.

No charge is made for transcripts sent to Pennsylvania school officials in connection with applications for a position.

Dismissal From College

Administrative officers and the student councils may make recommendations to the President for suspension and dismissal. No student shall be suspended or dismissed from the College except upon the approval of the President.

Student Class Load

A full-time student's schedule must have a normal load which is 12-17 semester hours of credit. No student shall be permitted to schedule more than 34 semester hours of credit in one academic year without the approval of the Director of Undergraduate Studies.

Sixteen semester hours is considered a normal course load.

Withdrawal from a Course

Approved withdrawal from a course is not permitted without justifiable reason and must be approved by the Department Chairman and the Director of Undergraduate Studies.

A student may receive approval to withdraw from or "drop" a course during the first four (4) weeks of a semester. In the case of summer sessions, he may withdraw during the first three (3) days of a Pre or Post Session and during the first week of Regular Session. No notation of this course will then appear on the stu-

dent's permanent record. Except for special reasons and emergencies, withdrawal from a course is not permitted after the first four (4) weeks of the semester or as indicated for the summer sessions.

Faculty will record a grade of "WP" if the student's work is passing and "WF" if the student's work is failing at the time of approved withdrawal. A grade of "WF" will be recorded if a student withdraws from a course without approval. A grade of "WF" receives the same penalty in quality points as an "F."

Students wishing to withdraw or "drop" a course should follow the procedure listed below:

1. Student should secure a "Drop Schedule" from the office of the Director of Undergraduate Studies.
2. Student should confer with the faculty member regarding withdrawal.
3. Faculty member should confer with the Department Chairman who will make any comments regarding approval or disapproval of student's request.
4. Faculty member returns "Drop Schedule" form to the office of the Director of Undergraduate Studies by mail, for final disposition of the request.
5. A student who drops a course without official permission will receive an "F" grade.

Classification of Students by College Program

Regular Student—all undergraduates who are admitted to a degree program in Elementary Education, Secondary Education, Health and Physical Education, Music Education, and Liberal Arts and Sciences.

Special Student—any student other than the above who is pursuing a program which, when completed, will comprise twelve or more semester hours of credit. Such program types include:

a. Degree program for Public School Nurses;

b. Degree program for Dental Hygienists;

c. Certification program for college graduates seeking teaching certificates;

d. Other non-degree programs for purposes of fulfilling requirements imposed by other colleges, self-improvement, special interest, etc.

Unclassified—any student accepted for attendance at the college and restricted to a total accumulation of nine semester hours of credit.

Notice of Anticipation of Graduation

It is the responsibility of the student to report to the Office of the Director of Undergraduate Studies at least three months before the date of his anticipated graduation. It is the student's responsibility to see that his name is placed upon the list of prospective graduates and to indicate at that time the way his name should appear on the diploma. If he fails to do this, his graduation will be postponed until the next regular commencement.

Each student must, of necessity, assume responsibility for seeing that he meets all of the requirements for graduation outlined in the college catalog. These include the meeting of all general and professional education requirements, requirements in major and minor fields, a total of one hundred twenty-eight (128) credits, and a minimum scholastic index of 2.00 or "C" average.

Graduation

A student will be recommended for graduation when all the requirements for his curriculum have been met. Diplomas will not be issued until all bills and obligations to the College have been met.

The Alumni

The West Chester State College alumni number approximately fifteen thousand, and their devotion to the College is marked. The annual meeting held at the College just before commencement is well attended and active branch organizations hold meetings at the following places: Allentown, Atlantic City, Bethlehem, New York City, Pottsville, Reading, and York. The Tri-County organization consists of graduates living in Delaware County, Montgomery County, and Philadelphia.

Provisional College Certificate

A student who satisfactorily completes one of the Teacher Education curricula offered by the College receives his degree from the College and qualifies for a Provisional College Certificate which is issued to him upon application to the Department of Public Instruction, Harrisburg, Pa.

In the elementary field this certificate qualifies the holder to teach in the elementary schools of Pennsylvania for three years.

In the secondary field this certificate qualifies the holder to teach the subjects written thereupon in the secondary schools of Pennsylvania for three years.

In health education and music education the certificate qualifies the holder to teach and supervise the special subject in both elementary and secondary schools of Pennsylvania for three years.

Permanent College Certificate

The Permanent College Certificate requires three years of successful teaching in the public schools of the Commonwealth of Pennsylvania under the Provisional College Certificate and the satisfactory completion of 24 semester hours of additional work of collegiate grade, completed subsequent to the issuance of the baccalaureate degree. One-half of the additional work must be professional in character and the remainder be related to the subject or subject fields on the certificate. This certificate is a permanent license to teach in Pennsylvania.

All Permanent Certificates require a basic course in the History of the United States and of Pennsylvania as well as a basic course in visual aids and sensory techniques. It is recommended that these requirements be part of the undergraduate preparation for all teachers.

Extension of College Certificates

1. A college certificate valid for the secondary field may be extended to include the elementary field by completing twenty-four semester hours of approved courses in the field of elementary education, distributed as follows: a course in the teaching of reading, the remainder selected from a minimum of four of the following areas: mathematics, arts and crafts, music, physical education, language arts, sciences, social studies, geography, mental hygiene, or a course dealing with exceptional children.

2. A college certificate valid for the elementary field may be extended to include any subject of the secondary field by completing eighteen to forty semester hours in a secondary subject, depending upon the area of specialization.

3. A college certificate valid for the secondary field may be extended to include additional academic subjects when the holder has com-

pleted 24 - 40 semester hours of approved courses in each subject to be added to the certificate.

Certification in Other States

Concerning the requirements for certification for teaching in other states, students should consult the Dean of Academic Affairs.

Teachers in Service

Entrance and college credits based on teaching experience have not been granted since September 1, 1927.

Credit for student teaching other than that done under the direction of the College will not be allowed.

Credit toward entrance or toward graduation with a degree will not be allowed for experience in teaching.

CERTIFICATION OF TEACHERS

School Laws of Pennsylvania, Section 1202. State Certificates.

State certificates shall be issued as herein provided. Each such certificate shall set forth the branches which its holder is entitled to teach. No teacher shall teach, in any public school, any branch which he has not been properly certified to teach.

A certificate to teach shall not be granted or issued to any person not a citizen of the United States, except in the case of exchange teachers not permanently employed and teachers employed for the purpose of teaching foreign languages.

EXPENSES

FEES*

1. For Students Who Are Legal Residents of Pennsylvania

**A. Fees for each *full-time* student are charged EACH SEMESTER as follows:

Curriculum	Basic Fee †	Special Curriculum Fee	Total*
Elementary Education	$125.		$125.
Secondary Education	$125.		$125.
Health and Physical Education	$125.	$18.	$143.
Music Education	$125.	$45.	$170.
Liberal Arts	$150.		$150.

B. Part-time Campus Students and Extension Students (students taking eleven semester hours or less)

(1) Basic Fee for students enrolled in the Teacher Education Curricula—$12.50 per semester hour (minimum $37.50).

(2) Basic Fee for students enrolled in Arts and Sciences or any curriculum other than Education—$15.00 per semester hour (minimum $45.00).

(3) Special Curriculum Fee—same as for full-time students prorated on the basis of eighteen semester hours.

C. The President of the College may, at his discretion, authorize payments for not less than one month in advance by worthy students who are in full-time attendance.

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* FEES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

** The acceptance of a student is for a semester. Parents or guardians who are providing for the expenses of a student should understand that their financial obligations are for a full semester.

† This fee covers registration and keeping of records of students, library, student welfare, health service (other than extra nurse and quarantine), and laboratory facilities.

2. For Students Other Than Legal Residents of Pennsylvania

A. Full-time Students

(1) $20 per credit hour (averages $320 for regular 16 credit hour load) plus special curricular fees.

(2) Special Curriculum Fee

(a) Health and Physical Education—$18 per semester

(b) Music Education—$45 per semester

B. Part-time Campus Students, Off-Campus Extension Students, and Summer Session Students

(1) Basic Fee—$20 per semester hour (minimum basic fee $60)

(2) Special Curriculum Fee—same as for full-time students prorated on the basis of eighteen semester hours.

3. Housing Fee

A. Housing rate for students.

The housing rate for students is $306 per semester.

This includes room and meals, during the time the College is officially in session (excludes holidays and recesses).

Students must vacate dormitory rooms on the day college recesses begin. Rooms may be occupied after 2:00 P.M. on the day preceding the end of a college recess.

(1) Official recesses to which this regulation applies are:

(a) Thanksgiving—from close of classes to 8:00 A.M. on the day classes resume;

(b) Christmas—from close of classes to 8:00 A.M. on the day classes resume;

(c) Between semesters—semesters end for freshmen, sophomores, juniors, non-graduating seniors, and special students immediately after their last final examination or student teaching assignment and the recess extends to 8:00 A.M. of the day stu-

dents are scheduled to register for the next semester;

(d) Spring Vacation—from close of classes to 8:00 A.M. on the day classes resume;

(e) Easter—from close of classes to 8:00 A.M. on the day classes resume;

(f) Other official holidays (recesses) to which this regulation applies may be designated by the College Administration.

(2) An additional charge of $9 per student will be made each semester for rooms with running water.

(3) In the Summer Sessions only, a student may occupy a double room alone by paying an additional $2 per week. A special charge also applies during the academic year if room is available.

(4) For the purpose of meeting the requirements of those college students who live in college campus extension private rooming houses but board in the college dining room, the rate will be $9 for table board. Room rent is paid to the private householders and not to the College.

(5) No reduction in the rates is to be made for the absence of students for less than two weeks.

B. Housing rates for employees other than those included in the State Classification Schedule (faculty, clerks, etc.) are $18 per week, divided $9 for meals and $9 for room.

The rate for separate meals is:

Breakfast $.65 Lunch $.85 Dinner $1.25

Transient lodging fee is $1.50 per night per person, plus tax.

C. The President of the College may, at his discretion, authorize payments for not less than one month in advance by worthy students.

4. Damage Fee

Students will be responsible for damage, breakage, loss, or delayed return of college property. The rooms are fully equip-

ped for students at entrance. Any damage done to furniture, furnishings or buildings, beyond that which comes from use, will be charged to students. At the opening of the year all necessary electric light bulbs are furnished free. Thereafter, students pay for extra light bulbs. If damage results from using appliances other than those provided by the College, a proportionate amount will be charged to all students accountable.

5. Private Music Instruction Fees

A. Students enrolled in the Music Education Curriculum do not pay extra fees for private instruction in voice, piano, band or orchestral instruments that are required in the curriculum. Such instruction is included in the basic fee. There is no charge for the using of pianos for practice. A rental charge is made for the following:

(1) Pipe organ for practice, one period each day, $36 per semester.

(2) Band or Orchestral instruments, $6 per semester.

B. Students enrolled in the Humanities curriculum of the Liberal Arts and Sciences Program who elect individual lessons in voice, piano, organ, band or orchestral instruments shall be charged a lesson fee of $45 per semester. There is no charge for the use of pianos for practice. A rental charge is made for the following:

(1) Pipe organ for practice one period per day, $36 each semester.

(2) Band or Orchestral instruments, $6 per semester.

C. Students enrolled in the Elementary, Secondary, Health and Physical Education Curricula (not applicable to Humanities Curriculum) shall be charged a lesson fee of $24 each semester for one half-hour lesson per week—plus a $37.50 out-of-music-curriculum fee. A rental charge is made for the following:

(1) Piano for practice, one period each day, $6 per semester.

(2) Pipe organ for practice, one period each day, $36 per semester.

(3) Band or Orchestral instruments, $6 per semester.

6. Miscellaneous Fees

A. Diploma Fee

A fee of $5 must be paid by each candidate for a degree to cover the cost of the diploma.

B. Record Transcript Fee

One dollar will be charged for the second and each subsequent transcript of records. This must be paid by cashier's check or money order.

C. Late Registration Fee and Late Payments

A late registration fee of $5 will be paid by students who do not register on the appointed registration day. The same regulations shall apply to approved inter-semester payments.

7. Delinquent Accounts

No student will be enrolled, graduated, or receive a transcript of his record until all charges have been paid.

DEPOSITS

Application Fees for New Students

An application fee of ten dollars must be paid by all applicants. **This fee is not refundable for any reason whatsoever and it is not credited to an applicant's account when he enrolls.**

When a student has been offered admission, he accepts the offer by sending an additional twenty-five dollars which is a guarantee of his intention to enter the College for the term or semester designated **and is not refundable.**

When a student enrolls at the College, he receives credit for the acceptance fee (twenty-five dollars) toward his Basic Fee. If a student does not enroll, he forfeits his twenty-five dollars.

Cashier's check or money order (not personal check or cash) for these deposits must be made payable to the **Commonwealth of Pennsylvania.**

Advance Registration Fee For Upperclassmen

Upon notice by the Business Office, upperclassmen are required to pay an advance registration fee as a guarantee of their intention to return to College. If this fee is not paid within the stipulated time limit, the student is dropped from the rolls of the College and loses all privileges and priorities that were due him.

If, after paying the advance fee, the student withdraws from the College or does not enroll for the semester or term designated, he forfeits a portion of the fee.

Check or money order must be made payable to the **Commonwealth of Pennsylvania.**

ADDITIONAL COSTS

1. Compulsory Accident Insurance

$9.00 per college year.

2. Intracollegiate Government Association Fee

A student activity fee will be collected from all students and administered under regulations approved by the Board of Trustees through a cooperative organization. This fee will cover the cost of student activities in athletics, lectures, entertainments, student publications, et cetera.

Students taking extension courses or regular session students taking less than twelve semester hours may secure the benefits of the activities program by the payment of the student activity fee. This fee, as determined and collected by the I.G.A. of the West Chester State College, is $20 each semester.

3. Books

Each student purchases his own books and supplies. These may be bought at the College Book Store. The cost is approximately $75 each semester.

4. Gymnasium Outfits

A. Health and Physical Education Students

1. All Health and Physical Education men students are required to purchase athletic and gym outfits costing approximately $30 for the first semester and $25 for the third semester.

2. Health and Physical Education women students are required to order gym uniforms costing approximately $40 for the first semester. Forms will be sent to each applicant upon her acceptance by the College. An additional cost of $22 will be required of all sophomore girls. Information regarding this expenditure will be reviewed during the second semester of the freshman year.

B. Elementary, Secondary, Music, and Liberal Arts and Sciences Students

In the first semester of the freshman year all students other than those registered in the field of Health and Physical Education are required to purchase a regulation gym outfit. For the women students the outfit includes a pair of blue shorts, a white shirt, a white sweat shirt, white socks, and canvas tennis shoes.

For the men students the outfit includes a pair of white shorts, a white T-shirt, white socks, canvas gym shoes, gray sweat pants, and gray sweat shirt. The approximate cost of the outfit is $15.

5. Identification Cards

A charge not exceeding one dollar ($1.00) will be made for Student Identification Cards on the day of registration. Identification cards are used to admit students to college functions sponsored by the I. G. A. and to the College dining room. Identification cards show each student's photograph, home address, IBM number, and class. Lost identification cards will be replaced at a cost of two dollars and fifty cents ($2.50).

6. Dues

Each student will pay either a Day Student or Dormitory Council fee of nominal amount, which currently is two dollars per year for women and one dollar per year for men.

7. Class Dues

Class dues constitute an obligation which every student assumes upon admission to the College and *must be paid at the time of registration*. Class dues are determined by each class. For the current year the dues are as follows: Freshmen—$1; Sophomores—$10; Juniors—$21; Seniors—$25.

REPAYMENTS

1. Repayments will be made:

In case of personal illness, the same being certified by an attending physician, or for such other reason as may be approved by the Board of Trustees, the amount of the housing and basic fees paid by the student for the part of the semester which the student does not spend in college will be refunded. Application for a refund must be made in writing to the Business Office.

2. Repayments will not be made:

A. To students who are temporarily suspended, indefinitely suspended, dismissed, or who voluntarily withdraw from the College.

B. Of the application fee ($10) or the acceptance fee ($25) for any reason whatsoever.

DATE OF PAYMENTS
1966 - 1967

The College sends out bills for board and room and the basic and special curriculum fees each semester. This divides the payments per year into two units. If special arrangements other than these are desired, the student should consult the Business Manager of the College.

Checks for the basic and special curriculum fees and for board and room should be made payable to the COMMONWEALTH OF PENNSYLVANIA, and mailed to the College Business Office.

Checks for the student activity fee should be made payable to the I. G. A. at West Chester, Pa., at the beginning of each semester. This fee shall be paid upon receipt of bill.

	1966-67
First semester, 1966-67	September 12, 1966
Second semester, 1966-67	January 23, 1967
Pre-Session, 1967	June 5, 1967
Regular Summer Session, 1967	June 26, 1967
Post-Session, 1967	August 7, 1967

SUMMARY OF COSTS PER YEAR*
FOR RESIDENTS OF PENNSYLVANIA

1. Elementary, Secondary, Public School Nursing, Dental Hygiene Curricula

a. Boarding at the College

Basic Fee	$250.00
Activity Fee	40.00
Books (approximately)	120.00
Room and board	612.00
	$1022.00**

b. Day Students—Living at Home

Basic Fee	$250.00
Activity Fee	40.00
Books (approximately)	120.00
	$410.00**

2. Health and Physical Education Curriculum:

a. Boarding at the College

Basic and Special Curriculum Fees	$286.00
Activity Fee	40.00
Books (approximately)	120.00
Room and board	612.00
	$1058.00**

b. Day Students—Living at Home

Basic and Special Curriculum Fees	$286.00
Activity Fee	40.00
Books (approximately)	120.00
	$446.00**

*Fees are subject to change without notice. Out-of-state students will be charged a basic and tuition charge of $20 per credit hour (averages $640 for regular 32 credit hour load) plus special curricular fees.

**Cost of gymnasium outfits and class dues must be added to this total.

3. Music Education Curriculum:

a. Boarding at the College

Basic and Special Curriculum Fees	$340.00
Activity Fee	40.00
Books (approximately)	120.00
Room and board	612.00
	$1112.00*

b. Day Students—Living at Home

Basic and Special Curriculum Fees	$340.00
Activity Fee	40.00
Books (approximately)	120.00
	$500.00*

4. Liberal Arts Curriculum:

a. Boarding at the College

Basic Fee	$300.00
Activity Fee	40.00
Books (approximately)	120.00
Room and board	612.00
	$1072.00*

b. Day Students—Living at Home

Basic Fee	$300.00
Activity Fee	40.00
Books (approximately)	120.00
	$460.00*

5. Part-time Campus Students

Pennsylvania residents taking eleven or less semester hours shall pay at the rate of $12.50 per semester hour (minimum basic fee, $37.50). Students taking twelve or more hours shall pay the regular basic fee.

*Cost of gymnasium outfits and class dues must be added to this total.

EXPENSES AND FEES — SUMMER SESSIONS

Board and room are $17.00 a week. The Activity Fee for the Regular Sessions is $3.50 and for the Pre-Session and Post Session $1.75 each. Books will cost approximately $6.00 per course. In Teacher Education the basic fee is $12.50 per semester hour of credit (minimum basic fee of $37.50 for legal residents of Pennsylvania for Regular Sessions, or $18.75 for Pre and Post Sessions). In any other curricula, the basic fee during Regular Session is $15.00 per semester hour of credit (minimum basic fee of $45.00 for Regular Session and $22.50 for Pre and Post Sessions for legal residents of Pennsylvania). Out-of-state students pay at the rate of $20.00 per semester hour of credit regardless of curriculum (minimum basic fee, $60.00 for Regular Session or $30.00 for Pre or Post Session). The full expense of any summer session must be paid on the day of registration.

All prospective summer school students **must** fill out a **Pre-Registration Information Form** giving the information requested as well as the courses they wish to take during the summer sessions. Return the form to the Dean of Admissions, West Chester State College, West Chester, Pennsylvania 19380.

Pre-registration for the three summer sessions (Pre, Regular, and Post) will terminate the Wednesday prior to the General Registration and Payment Dates. Any student who fails to furnish **Pre-Registration Information Forms** to the College by the pre-registration deadlines will be subject to a late pre-registration fee of five dollars ($5.00). Also, there will be a Change-of-Course fee of $5.00 on registration day for any student who wishes to change a course after having pre-registered. Therefore, all changes of courses must be made prior to the three deadlines mentioned above. ALL SUMMER SCHOOL FEES ARE DUE AND PAYABLE ON THE GENERAL REGISTRATION DATES.

A late fee of $5.00 will be paid by students who do not register on the appointed registration day.

COLLEGE COMMUNITY ORGANIZATION AND ADMINISTRATION

In the belief that all who share in the advantages of the college community should join in the responsibility of government, a college community has been conceived whereby faculty and students cooperate as fully as possible for the mutual advancement of the college program.

Achievement goals for each college year have been set up as tentative guides for a program of college life, subject to constant modification to meet new trends and needs. These goals cover the areas of administration, instruction, student life and personnel, community and service area relationship, and teacher education.

These goals are achieved through councils and standing committees.

The Academic Affairs Council is an advisory group composed of Departmental Chairmen and administrators. This Council aids the President in formulating and executing the general administrative policies of the institution.

The standing committees represent both faculty interests and faculty-student interests. They include committees on Admission, Personnel and Guidance, Curriculum Study and Revision, Library, Scholarship, Student Life and Activities, Athletics, and Student Teaching and Placement.

Student Government

The Intracollegiate Governmental Association gives students of West Chester State College the learning experience of a representative and cooperative government organization. It works toward the betterment of the general welfare of the student body of the college, and it provides an opportunity for students to take responsibility in fomulating policy, procedures, programs, etc. which pertain to student affairs.

The Intracollegiate Governmental Association functions as the liaison between the student body, the faculty, and the administration, and acts in all areas to contribute to the betterment of the college community.

The Intracollegiate Governmental Association is composed of the representatives of the classes, Freshmen, Sophomore, Junior and Senior; of the Women's and Men's Dormitory Councils; of the Women's and Men's Day Students Council, and of Representatives-At-Large.

Cultural Programs

The annual All-Star Course brings to the campus some of the world's most famous artists in fields of music, drama, and dance. Among these have been the Pittsburgh, Detroit, National, Cleveland, and Minneapolis Symphony Orchestras, the Robert Shaw Chorale, the Jose Limon Dance Company, the Boston Opera Company, George London, Isaac Stern, Brian Sullivan, the Canadian Players, Carmen Amaya, Jerome Hines, Blanche Thebom, Nathan Milstein, the Singing Boys of Norway, Roberta Peters, Cesare Siepi, and the Wagner Opera Company.

The William Pyle Philips Lecture Foundation brings to the campus lecturers who are leaders in the fields of literature, science and world affairs. Among these have been Madame V. L. Pandit, Arnold Toynbee, Harrison Salisbury, Loren Eiseley, Daniel Schorr, Ashley Montague, Walter Sullivan, Robert Frost, Bennett Cerf, Sir Julian Huxley, Dame Judith Anderson, General Carlos P. Romulo, and Vance Packard.

The college Assemblies, of which there are approximately eight, provide the student, faculty, and citizens of the community with an additional series of cultural and professional programs.

Musical Organizations

In conjunction with the regularly scheduled student and faculty recitals, the College Administration has set up the following well-developed musical organizations which contribute to the wealth of fine music on campus:

1. TWO COLLEGE BANDS: THE CONCERT BAND AND THE MARCHING BAND.

   Membership in these organizations is determined by the student's qualifications regardless of curriculum.

2. SYMPHONY ORCHESTRA.

   Membership in this organization is determined by the student's qualifications regardless of curriculum.

3. LITTLE SYMPHONY ORCHESTRA (Sinfonietta).

The Sinfonietta is a group of approximately twenty-five selected players from the Symphony Orchestra. It specializes in performing music written for small orchestras.

4. INSTRUMENTAL ENSEMBLES AND CHAMBER MUSIC GROUPS.

Membership in these groups is determined by the student's qualifications.

5. THE CRITERIONS.

The College's jazz lab band, whose members are selected by audition.

6. CONCERT CHOIR.

A mixed choir of Music Education students selected by audition. This choir of approximately forty voices meets twice a week, devoting its efforts toward acquiring a fine technique of choral singing through the preparation of an extensive repertoire for performance.

7. CHOIR.

A mixed choir of junior and senior Music Education students. This group meets twice a week, devoting its efforts toward a wide association with choral literature. It is used as an opera chorus in Music Department productions and joins with the Concert Choir for large combined performances.

8. WOMEN'S CHORUS.

All women not in the Concert Choir or Choir who are enrolled in the Music Education Curriculum are required to take this course, devoting their efforts primarily toward acquiring the techniques of choral singing.

9. MEN'S CHORUS.

All men of the Music Education Curriculum who are not enrolled in the Concert Choir or Choir. Men from the Elementary, Secondary, Health and Physical Education, and Liberal Arts and Sciences curricula are invited to audition for this group.

10. MIXED CHORUS.

A mixed chorus of freshmen and sophomore Music Education students. This group meets once a week, alternating as a mixed chorus and as Men's Chorus and Women's Chorus. It combines with the Concert Choir for combined performances.

Little Theatre

This student theatrical producing organization, functioning in Theatre 208, provides a workshop for those who wish training in educational, technical and performing theatre. It presents plays for college affairs as well as for the cultural community, planning a varied season of several major productions. Little Theatre has established a chapter of Alpha Psi Omega, national honorary dramatic fraternity, on the West Chester campus.

Men's Intercollegiate Athletic Program

It has become recognized by educators and public alike that athletics are a part of general education because athletic activities provide situations that are akin to life experiences, and as such, are conducted with the purpose of developing the educational values which grow out of them.

With this in mind, the College Administration has set up an organization for the control of athletics; it has provided facilities, built schedules, and furnished instructors for the purpose of filling these educational needs.

Sports such as football, baseball, basketball, soccer, track, wrestling, swimming, tennis, gymnastics, golf, and cross-country are conducted for the purpose of providing our young men with activities that not only will prove beneficial to their health but also will give them a training which will be valuable when they are called upon to coach these sports.

It is the policy of the College Administration first, to provide a variety of sports, as indicated above, in order that as many young men as possible may participate in the activities which interest them most and in which they may achieve a high degree of personal skill; second, to provide eligibility rules that are just and sensible, yet will insure good scholarship; third, to provide schedules which are in our college class, yet are in keeping with the

traditions and standing of our College; fourth, and finally, to give athletics their rightful place in our educational program of preparing teachers so that they will function properly in the life of the student body, but will not assume an importance out of all proportion to their value.

The West Chester State College is a member of the National Collegiate Athletic Association, the Middle Atlantic States Collegiate Athletic Conference, the I.C.4A., and a charter member of the Eastern Collegiate Athletic Conference. In addition, West Chester conforms to the eligibility standards set by the Board of Presidents of the Pennsylvania State Colleges.

The athletic program at West Chester provides adequate player and spectator opportunities. Facilities and equipment are of the best. All team coaches are regular members of the faculty.

Men's Intramural Athletics

An athletic program cannot be justified educationally if it is confined to intercollegiate competition alone. There must be provision for all students. The policy of the College Administration is to expand this part of the program for both men and women in order that a variety of activities may be supplied for all of our students. Such sports as touch football, swimming, soccer, tennis, basketball, roller hockey, track, soft ball, and volley ball are organized and conducted for the men students.

Women's Athletics

In the best interests of the women students a program of athletics is provided with an opportunity to participate in a variety of athletic activities including team, individual, and dual sports. Through participation, leadership responsibilities are developed in the planning, organizing, and functioning of these sports as a part of the total college program. All women students are eligible to participate in the intramural program under the direction of the Women's Athletic Association (WAA) and/or the intercollegiate sports which are conducted by the Women's Intercollegiate Athletic Program.

Women's Athletic Association—Intramurals

Intramural athletics for women are conducted by the Women's Athletic Association for the social, physical, and recreational

benefits of the women students at the college. The governing council consists of the club officers and sports managers who are elected by the students, and a faculty adviser. Its program provides a range of activities including hockey, volleyball, basketball, tennis, softball, table tennis, lacrosse, and badminton. The basic purpose of the organization is to foster good sportsmanship and promote and increase participation in intramural sports for women. For the individual participant, an opportunity is provided to develop skills in leisure time activities which may continue after college. Personal satisfaction and enjoyment are the desired outcomes of sport activity.

The WAA belongs to the National Athletic and Recreation Federation of College Women and the Pennsylvania Division of the Athletic and Recreation Federation of College Women.

Women's Intercollegiate Athletic Program

The activities of the WIAP are conducted by the director of the program, the women coaches, and a student advisory council consisting of the managers of the varsity sports. The managers are selected by the coaches. The program includes a variety of team and individual sports, such as hockey, swimming, lacrosse, golf, basketball, tennis, and synchronized swimming. This program provides opportunities for wholesome competition with other college women of comparable skill. Activities are planned in accordance with the highest ideals of good sportsmanship. Students participating develop interest and skill in worthy leisure time activities, further cultural understanding and appreciations through contacts with students from other colleges, and gain knowledge and experience of coaching procedures and techniques.

The entire women's intercollegiate program is guided by the standards and policies of the Division of Girls and Women's Sports, which is a division of the American Association of Health, Physical Education and Recreation. A basic over-all standard of the above named organization is "The one purpose of sports for girls and women is the good of those who play."

Student Health Service

The College assumes no responsibility for furnishing or paying for medical care to sick or injured students beyond first aid treatment. Qualified physicians and hospital facilities are available

in the community of West Chester. Students over 21 and parents or guardians of students under 21 are required to sign a prescribed statement authorizing the College, or its agents, to refer such students to local doctors or hospitals for any and all emergency medical care.

All costs of medical or surgical treatment, including hospitalization, must be borne by the student involved or by parents or guardians. However, a group medical and accident policy approved by the College covering accidents and illnesses on a twelve months' basis is available at an annual premium of $32.00.

Students and parents are requested to consider seriously the splendid protection it offers, at low cost.

THE INSURANCE IS IN EFFECT FOR A TWELVE MONTH PERIOD WHETHER THE STUDENT IS ON CAMPUS, TRAVELING, OR AT HOME.

Selective Service Information

The Director of Undergraduate Studies is the College adviser on Selective Service. Students wishing advice on this subject should apply at his office in Anderson Hall.

A student seeking deferment must complete at the beginning of each college year an *SS109* Form which will be submitted to the student's local Selective Service Board by the Director of Undergraduate Studies. These forms can be secured from the Registrar at the time of registration.

Armed Services ROC Program

The College, with the approval of the Board of Trustees, has adopted a policy whereby West Chester students enrolled in Armed Services ROC Programs may receive credit for six semester hours of baccalaureate credit upon the successful completion and certification of ROC military requirements. Such credits are classified as free elective transfer credits. Depending on the status of each student's program at the time of transferring ROC credits, such credits will be counted towards or be considered in excess of the 128 credits required for the B.A. or the B.S.

ROC programs are contingent on the student candidate completing military requirements successfully during summer vacation and earning a college degree before being granted the service commission. The programs cover the Navy's Basic and Advanced Reserve Officer Candidate courses and the Marine Corps' Junior and Senior Platoon Leadership courses.

Classification of Students

1. *Resident Students.* Resident students are of two types:
   a. *"Dormitory Students"*
   College Residence Hall Students—those who live in college owned and operated residence halls and take their meals in the College dining rooms. All residence hall students are required to eat in the College dining hall.
   b. *"Off-Campus Resident Students"*
   College Campus Extension Students—those who are assigned by the Dean of Women or the Dean of Men to college extension houses. These houses are not college owned but are organized and supervised in a manner similar to the college owned residence halls. These students also are required to take their meals in the college dining hall.
2. *Day (Commuting) Students* are those who live at the home of their parents or legal guardians. Students over 21 years of age may establish legal residence in or near the Borough of West Chester by paying a Per Capita Tax in their Borough or Township. Such students are not required to take their meals in the College dining room.

The classification of students is determined by the Deans of Women and Men. These deans advise on the living conditions of all students.

In very rare cases, the Dean of Student Affairs may approve exceptions to the rule that Resident and Off-Campus Resident Students must eat in the dining hall.

Application for permission to eat out of the College dining room must be filed in the office of the Dean of Student Affairs two weeks before the opening of each semester. The College Health Service will review each application based on the family physician's diagnosis, with a laboratory report such as blood count, urinalysis, and basal metabolism test.*

* The College Infirmary must be furnished with a diet list prepared and signed by the family physician. This list should be made out in duplicate, one copy to be kept at the eating place of the student's choice and the other to be placed on file at the Infirmary.

Housing

The College has housing accommodations for about 1,400 women and 550 men in their respective residence halls. Rooms are provided in private homes for College Campus Extension Students. These rooms are inspected by the Dean of Men and the Dean of Women. College Campus Extension Students are under the same college regulations as all other resident students.

Students who live in the college residence halls and off-campus residences are provided with bed linens and bedspreads. All other bed furnishings and toilet necessities are provided by the students.

The College cannot provide housing or apartments for married students and their families. It is the responsibility of the individual to secure housing facilities prior to registration day. Local real estate agents should be consulted.

Regulations Concerning Dormitory Students

A student who accepts an assignment to any college residence hall at the beginning of a semester or session will be responsible for the payment of room rent fee for the entire semester or session. Exceptions will be made only in cases of personal illness certified by an attending physician, or for such other reasons as may be approved by the President of the College and the Board of Trustees. A student admitted to a college residence hall after a semester or session begins will be responsible for the payment of the room rent for the balance of the semester or session on a prorated basis.

Regulations Concerning College Over-night Guests

A college residence hall student or college campus extension student is permitted to have an over-night guest on Friday and Saturday nights only when there is an available bed. The guest must be registered with and approved by the Dean of Women, in the case of women students, or the Dean of Men in the case of men students. A charge of $1.58 per night is required for each guest. All college residence hall students and college campus extension residents will be responsible for compliance with this regulation.

Student Automobile Regulations

Residence hall and college campus extension students who have valid reasons within the existing College Automobile Regulations may obtain and operate automobiles on campus, *providing they apply for and obtain permission from the Dean of Men or Women prior to bringing automobiles on campus.*

Commuting students will be granted permission, upon application to the *Chief of Security,* to drive automobiles to and from the College daily.

College Book Store

The College Book Store carries, in addition to books, a complete line of student necessities. This book store is operated as a student enterprise, the net profits of which accrue to the benefit of the Intracollegiate Governmental Association.

EXTRA-CURRICULAR ACTIVITIES

Developing the extra-curricular program, fitting it to the needs of the students, and co-ordinating its various phases into the whole of college living, are responsibilities of the Dean of Student Affairs. Questions of policy and regulations, the evaluating of the objectives of an activity, and other problems are acted upon by the Student Affairs Council.

The program of extra-curricular activities at West Chester emphasizes four types of activities leading to individual and group development. The various clubs, organizations, activities, and responsibilities are grouped below according to the type of development emphasized.

Type A: Activities that center around college group life; activities of college community government and living, such as: Intracollegiate Governmental Association Executive Board, Student Councils, Class Committees, Epicurean Club, Quad Angles, Student-Faculty Committees, Serpentine, Press Board, Little Theatre.

Type B: Activities that promote better professional development—that train for sponsorship and organization of

"extra-class" programs in the public schools. The various departments of the College sponsor professional clubs, such as: Association of Childhood Education, English, French, Geography, Mathematics, Music, Social Sciences, and Science. There are also men's and women's sports activities for health and physical education students.

Type C: Activities that promote finer ethical values. These groups have organized a Council of Religious Clubs that plans for a unified program for the year as well as emphasizes ethical action as a unified front; it is through united effort in this area that standards of honor and character may be raised on the campus. The organizations in this group are: Inter-Varsity Christian Fellowship, Hillel Foundation, Newman Club, Student Christian Association, and Christian Science.

Type D: Activities that satisfy individual interests and hobbies. These activities include a long list, such as: art, athletics, glee clubs, photography, record playing, nature study, orchestra, etc.

Each student is urged to participate in the activities of a club for one semester of each year. The Student Affairs Council and the Student Affairs Division ask the co-operation of the students in taking advantage of the varied types of extra-curricular activities that are offered.

No student is permitted to hold more than one office in one semester. It is hoped that in this way it may be possible to spread opportunity and divide responsibility, and thus develop leaders and discover latent abilities as well as continue to enjoy the services of those who are naturally inclined to direct affairs.

Students are urged to take into account the fact that their extra-curricular participation often has an important bearing upon their placement when seeking positions. Students should keep in mind not only the placement value of their extra-curricular program but also its cultural value.

Publications

QUAD ANGLES, the student newspaper, is published by an undergraduate staff. Positions in the organization are open to any

member of the student body with reporting or editing ability. A faculty member serves as adviser.

THE SERPENTINE is the college yearbook published under the direction of the Senior Class. This record of college activities is edited by a student staff with a faculty adviser.

THE RAM'S HORN is a publication of the Varsity Club produced on the occasion of each home game of the football season. The staff is made up from the undergraduate body of the College aided by a faculty adviser.

THE HANDBOOK is published each year as an aid to incoming freshmen. It is prepared by a student staff with the advice of a faculty sponsor.

Honor Societies

ALPHA PSI OMEGA—Coeducational Dramatic Fraternity

Alpha Psi Omega, national dramatic fraternity, was organized in 1925 at Fairmont State College, Fairmont, Virginia, to provide an honor society for those doing a high standard of work in college theatre, and to secure for them the mutual helpfulness provided by a large national fraternity. At present there are 345 chapters located in colleges and universities in the United States and Canada. The West Chester chapter, Rho Mu, was established in 1961 and is responsible each year for one major production presented in cooperation with the Little Theatre and Theatre 208.

Gamma Theta Upsilon Professional Geography Fraternity

Gamma Eta chapter of Gamma Theta Upsilon was established on the West Chester campus in the spring of 1963 to further professional interest in geography by affording a common organization for those honor students interested in the field. A major purpose of the organization is to advance the status of geography as a cultural and practical discipline for study and investigation.

Mathematics Honor Society

This society, organized on the campus in 1962, has as its main purpose the extension of interest, knowledge, and ability in mathematics among its members and throughout the community. Membership is open to all students who have completed 18 semester credits in mathematics with a minimum average of 3.0.

Pi Gamma Mu: National Social Science Honor Society

The Department of Social Sciences sponsors Pi Gamma Mu for the purposes of improving scholarship in the social sciences and achieving synthesis therein; of inspiring social service to humanity by an intelligent approach to the solution of social problems; and of engendering sympathy toward others with different opinions and institutions by a better mutual understanding. The motto of the Society is the epigram of the Master Teacher: "Ye shall know the truth and the truth shall make you free." Social Science majors with high academic accomplishments are selected into membership of Pi Gamma Mu by invitation in their junior and senior years.

SCHOLARSHIPS

The following scholarships are available to West Chester students who qualify for them:

William Pyle Philips Scholarships

The William Pyle Philips full tuition (basic fee) scholarships are available to junior and senior students. To be eligible for these scholarships, **students must be natives of Chester County.** Twenty to 25 scholarships are awarded each year. The beneficiaries are selected on the basis of scholastic ability and citizenship.

The Samuel Martin Scholarship Bequest

This is a fund which was left by the will of Mr. Samuel Martin "to be used to defray part of the expenses of persons of limited means who are preparing to teach . . . Persons who are assisted shall preferably be educated at West Chester Normal School (now West Chester State College). Children of Friends, or persons in sympathy with Friends are preferred." Persons wishing to obtain the benefits of this fund will inform Elbert N. Pusey, Esquire, 30 West Market Street, West Chester, Pennsylvania, 19380.

The Sarah H. Mellor Scholarship Fund of the Chester County Council of Parent-Teacher Associations

Mrs. Sarah H. Mellor was associated with the West Chester State College as student, teacher, and member of the Board of

Trustees. Her interest in education in general, in children, and in youth found expression in her devotion to the work of the Parent-Teacher Associations, especially those in Chester County. It was, therefore, most fitting that the Chester County Council of Parent-Teacher Associations memorialize her through this scholarship. A Joint Committee from the Chester County Council PTA and the College makes the award annually to a Chester County student who is in attendance at the West Chester State College. This annual award of $100 is based upon the need, personality, character, and scholastic ability of the student.

Hannah Kent Schoff Memorial Scholarships

The Pennsylvania Congress of Parents and Teachers, believing that there is great value in offering financial aid to worthy students who are preparing for the teaching field, for many years has maintained a memorial loan fund in honor of its first president, Mrs. Hannah Kent Schoff. In 1957 this loan fund became the Hannah Kent Schoff Memorial Scholarship Fund. Outstanding students are recommended by their high schools and may become candidates for these scholarships to Pennsylvania State Colleges. Each scholarship is an outright grant of $150 per year, or $600 for the four years. The money is paid directly to the college and is applied to the student's account. These scholarships are valid only at the fourteen Pennsylvania State Colleges. Application forms, which should be secured from the High School Guidance Counselor, must be filed with the State College of the applicant's choice before March 1st.

The David M. Sensenig Memorial Scholarship

In memory of Dr. David M. Sensenig, who was Head of the Mathematics Department of West Chester Normal School from 1895 until 1908, a scholarship is awarded annually to two juniors who have shown outstanding ability and achievement in Mathematics. The award is a $50 United States savings bond.

Kift-Mullen Memorial Scholarship for Future Teachers

The scholarship has been inaugurated by the Robert L. Kift-Thomas R. Mullen, Jr. Memorial Fund, Inc., provided for by the Lehigh Structural Steel Company, Allentown, Pennsylvania. To apply for this scholarship, students must be either juniors or sen-

iors and must be graduates of Allentown High School or Allentown Central Catholic High School. The amount of the scholarship is $200 per year.

The Theodore Presser Foundation Scholarship

This scholarship for music students is awarded by the Music Department, with the approval of the President of the College. The amount granted totals $400 yearly, as approved by the Board of Trustees of the Presser Foundation. The award was first granted to West Chester in 1929 and is available to juniors and seniors in the music curriculum.

Music Department Scholarship of the General Student Fund

Three scholarships, each in the amount of $100, are awarded annually to sophomore music education students. College citizenship and performance in the area of applied music are the factors considered in making this award.

SICO Scholarships

The SICO Company of Mount Joy, Pennsylvania, has established four scholarships of $300 each year for students who are to enter the West Chester State College in the field of Elementary Education. The applicants for these scholarships must have legal residence in Chester, Berks, Cumberland, Dauphin, Lancaster, Lebanon or York Counties, or the State of Delaware, and must apply for the scholarship in their senior year of high school through the high school guidance counselor. The scholarships are awarded on the basis of competitive examinations held at the College in March of each year.

Friars Memorial Scholarship

This scholarship is in memory of all those West Chester men who lost their lives in World War II. The amount of the scholarship is $100 awarded, when the society is able, to the junior male student who has been selected on the basis of 1) Leadership, 2) Character, 3) Friendship, 4) Financial need, 5) Academic achievement, and 6) Contribution to the development and improvement of West Chester State College.

The Southeast Delco Lions' Scholarship

The members of this organization have established a scholarship for a graduate of the Yeadon, Darby-Colwyn, Collingdale or Sharon Hill Borough high schools. In order to be eligible, students must: (1) be a commuting student; (2) have commendable sophomore standing at West Chester State College; (3) have exhibited good campus citizenship and participated in the College's extra-curricular program; (4) continue their education at West Chester State College with average or better than average grades; (5) be in need of financial assistance.

The amount of the scholarship is $1,000. Three hundred and twenty-five dollars ($325) will be awarded at the beginning of the sophomore year; three hundred and twenty-five dollars ($325) at the beginning of the junior year; and three hundred and fifty dollars ($350) at the beginning of the senior year, provided the above requirements are met annually. The first scholarship was awarded in 1961 and the second in 1964. It is the Club's intention to award this Scholarship every three years. The recipient is chosen by the scholarship committee of the Southeast Delco Lions' Club and the West Chester State College.

Valkyrie Club Scholarship

The scholarship, which amounts to $100 each year, is awarded to a member of the Valkyrie Club in her junior year and is to be applied to the payment of college expenses. The award is made on the basis of academic scholarship, need, and service to the Club.

York County Alumni Club Award

The members of this organization have established the Elsie O. Bull Scholarship Fund to be awarded each year by a Special Committee of Awards to a person from York County who is attending, or will attend, West Chester State College. The award is made on the basis of the need, ability, and achievement of the student considered.

Schuylkill County Alumni Club Award

A fund has been created by this group, to be awarded each year by the Scholarship Committee of the Club, to a person from

Schuylkill County who is attending West Chester State College. Need, ability, and promise are the prerequisites necessary for consideration.

Bethlehem Alumni Club Scholarship

The Bethlehem Alumni Club of Bethlehem, Pennsylvania, has set up a scholarship amounting to $200 per year, which is awarded to a student from the Bethlehem High School or the Bethlehem Catholic High School. This award is made directly to a senior in the above mentioned high schools by the Alumni Club.

Scholarship Awarded by the Delaware County Federation of Junior Women's Clubs

A fund has been created by this group to be awarded by the Scholarship Committee of the Club to one or more junior class women from Delaware County who are in attendance at the West Chester State College. The amount of this award varies but averages over $100 a year.

State Department Scholarship

The State Department of Public Instruction offers a scholarship of $200 per year for four years to the student earning the highest score in the competitive examinations given in each county. This scholarship may be used at West Chester. If a student is interested in competing for this scholarship, he should apply to his high school guidance counselor.

H. and P.E. Department Scholarship

The Health and Physical Education Department has a scholarship fund subsidized by income from the Quadrennial show. Monies accruing from the performance of every fourth year are placed in the General Student Fund account to the credit of this scholarship fund.

Each academic year, dependent upon the monies available, three $100 scholarships are awarded to second semester sophomores. The recipients are bound to use their awards for bona fide or stipulated college expenses. The criteria upon which all potential recipients are judged concern the following points which of necessity are not of equally weighted value.

1. Outstanding scholarship.
2. Campus leadership including contributions to both the Major Department and the College in general.
3. Need.
4. Citizenship.
5. Character.
6. Ability in specific areas of the major field.

The men's and women's staffs may furnish a preliminary list. Major Department-sponsored student groups such as Valkyrie Club, Major Club, Exhibition Group, Experimental Dance Group, etc., may suggest candidates to the screening committee.

Charles S. Swope Memorial Scholarship Fund

This scholarship has been established by the Swope family and by the generous gifts of many of the alumni and friends of the late President Swope. The purpose of the scholarship fund is to aid and assist such students as the Scholarship Committee may determine are of moral, mental, intelligent, and physical well-being, and who have demonstrated academic achievement, participated in extra-curricular activities, and shown a sincere desire to prepare for the teaching profession.

Any male student in order to qualify for this scholarship must be willing upon the completion of his formal college training to serve in the military service of his country contingent upon the needs under the Selective Service Act.

Application forms for this scholarship may be obtained at the office of the President of the College.

LOANS

The College endeavors to aid needy and deserving students take advantage of their educational opportunity. A student whose record is satisfactory, both in academic achievements and in respect to personal and community responsibility, may feel that his application for financial aid will receive favorable consideration. Applicants should apply at the Office of the Dean of Student Affairs for the necessary forms.

There are several loan funds from which a student may seek financial assistance. These are listed below.

National Defense Student Loan Fund

The specific purpose of this Government Loan Program, established under the National Defense Education Act of 1958, is "to stimulate and assist in the establishment at institutions of higher education of funds for the making of low-interest loans to students *in need* thereof to pursue their courses of study in such institutions." While making these loans available to needy students in *any* field of study, the Act specifies that "in the selection of students to receive loans . . . special consideration shall be given to (a) students with a superior academic background who express a desire to teach in elementary or secondary schools, and (b) students whose academic background indicates a superior capacity or preparation in science, mathematics, engineering, or a modern foreign language." Further information concerning these loans, as well as application forms, may be secured from Dr. Jack A. Owens, Institutional Representative for this loan fund.

College Scholarship Service

West Chester State College participates in the College Scholarship Service (CSS) of the College Entrance Examination Board. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The CSS assists Colleges, Universities and other agencies in determining the student's need for financial assistance. Entering students seeking financial assistance are required to submit a copy of the Parents' Confidential Statement (PCS) form to the College Scholarship Service by May 1. The PCS form may be obtained from a secondary school or the College Scholarship Service, P. O. Box 176, Princeton, New Jersey 08540.

General Student Alumni Loan Fund

This is a fund which was created by the Alumni Association to aid needy students. The maximum loan is $100 per year. These loans must be used exclusively for college expenses. Applicants must be good students and in need of this loan to continue their college education. Legal security is required. No interest is charged.

Loans must be repaid before graduation or prior to registration for the next academic year.

Viola Marple Scholarship Loan Fund

In accordance with the will of Miss Viola Marple, former teacher in the English Department, two scholarship loan funds were established for the education of two deserving young women, in need of financial aid, "whose whole record of ability, scholarship, and Protestant Christian character gives evidence of fitness for teaching and promise for future usefulness; the said loan to be made to such students each year as may be selected by the President and the English faculty." Renewal of any loan may be granted if the scholastic conditions are maintained. The awardees are required to sign promissory notes which will bear no interest, but will be payable after graduation.

West Chester State College Student Emergency Loan Fund

The loan funds of the former Student Activities Association and the B'nai B'rith Lodge have been combined and renamed the West Chester State College Student Emergency Loan Fund. This loan fund is for needy and deserving students and provides short-term loans up to $100. This loan is available to any student who is doing satisfactory academic work, and who needs additional funds to continue his college education. Loans must be repaid before graduation, or prior to registration for the next academic year.

For further information on any of the loan funds, students should consult the Dean of Student Affairs.

Pennsylvania Higher Education Loan Plan

This loan plan was created by the Act of August 7, 1963, P.L. 549. The purpose is to improve the higher educational opportunities of persons who are residents of Pennsylvania, and who are attending approved institutions of higher learning in this state or elsewhere in the United States, by providing loans for such persons to assist them in meeting their expenses for higher education.

To be eligible to apply for a loan, a student must be a legal resident of Pennsylvania and must be accepted for admission or satisfactorily enrolled in an approved institution of higher education in the United States.

Students may obtain application forms from a participating bank in his community or by writing to the Pennsylvania Higher Education Assistance Agency, Harrisburg, Pennsylvania.

Applications are not available at the office of the Dean of Student Affairs.

STUDENT EMPLOYMENT

Applications for the various types of student employment are accepted after May 1 of each year. Appointments for the year are made about July 1. Applications must be renewed each year.

Student Help Assistants

The College employs a limited number of students as helpers in some of the departments of the College; for example, the library, laboratories, and offices. Positions pay one dollar an hour, the amount earned depending upon the number of hours employed during a month. Part-time positions require twenty-five hours of work per month; full-time positions require fifty hours' work each month. Most of these jobs require some special form of training or skill. The money earned must be used exclusively for college expenses and is available primarily for those who could not otherwise attend college.

Student Waiters

Each year a number of men students are employed as waiters for the dining hall. Students thus employed are paid on an hourly basis and may earn from $375 to $400 for the year. Such positions are primarily available for those who could not otherwise go to college. The money thus earned must be used exclusively for college expenses.

Part Time Employment

The Office of the Dean of Student Affairs offers to assist students who wish to earn money toward their college expenses. Students may register for such part time work or odd job work as may come to this office from the campus or community. While every effort is made to obtain places for those who wish employment, students should not depend upon this source for any regular income. The opportunities range from a few dollars to nearly $200 for the college year. Students who enter college with training in some special field are able to earn more than those with little or no training.

Pattern For Handling Graduate Assistantships, Scholarships, And/Or Fellowships Offered By Other Colleges And Universities

Senior students planning to take graduate work at other colleges and universities may obtain information regarding scholarships, assistantships and/or fellowships from the file maintained in the Office of the Director of Guidance and Counseling. This office serves as the clearing house for all such information. Students should consult with their faculty adviser and/or major department chairmen regarding their interest in particular scholarships, assistantships, and/or fellowships. Students interested in such scholarships, assistantships, and/or fellowships should consult the material on file in the College Library, including catalogs from the various institutions.

CURRICULA OFFERED AT WEST CHESTER

West Chester State College offers programs leading to both the Bachelor of Arts and the Bachelor of Science Degrees. The Bachelor of Science Degree is awarded in the field of Teacher Education. Academic concentrations may be undertaken in Elementary Education, in Secondary Education with specialization in a number of disciplines, in Health and Physical Education, and in Music Education.

The Bachelor of Arts Degree may be earned in the Liberal Arts and Sciences Program by undertaking concentration of study in the Humanities, the Social Sciences, the Natural Sciences or Mathematics. It is possible for the student to develop a pre-professional program within the structure of the appropriate area of concentration.

A general education requirement of sixty semester hours is common to all curricula. Although minor variations exist among departments, this normally consists of approximately thirty hours in the Humanities, fifteen hours in the Social Sciences, and fifteen hours in the Natural Sciences and Mathematics. A student must consult with his major department to identify the specific requirements for his curriculum.

The following curricula are offered at West Chester:

I. Teacher Education
   - A. Elementary Education
   - B. Secondary Education
     1. Comprehensive English
     2. Foreign Languages
        - a. French
        - b. German
        - c. Latin
        - d. Greek
        - e. Russian
        - f. Spanish
        - g. Italian
     3. Geography

4. Mathematics
5. Sciences
   a. Biology
   b. Chemistry
   c. Comprehensive Science
   d. Earth and Space Science
   e. Physics
6. Social Sciences
   a. Comprehensive Social Studies
   b. History

C. Health and Physical Education

In addition to the Degree Program, Special Non-degree Programs, as follows:

1. Recreation Leadership
2. A program of Independent Study and Supervised Field Experience in Camping
3. Pre-Physical Therapy Program

D. Music Education

E. Special Curricula for:

1. Dental Hygienists
2. Public School Nursing

F. Non-degree Certification Programs

1. Special Education (Mentally Retarded and Physically Handicapped)
2. Education for Safe Living (Highway Safety and General Safety Education)

II. Liberal Arts and Sciences Curricula

A. Humanities

B. Social Sciences

C. Social Science — Geography

D. Natural Sciences

E. Mathematics

I TEACHER EDUCATION

A. The Elementary Curriculum

Upon satisfactory completion of the requirements of this curriculum the student will be granted the degree of Bachelor of Science in Education by the College and will qualify for a Pennsylvania Provisional College Certificate to be issued by the Department of Public Instruction, Harrisburg, Pa. This certificate will be valid for teaching for three years in the kindergarten and grades one to six inclusive, and for grades seven and eight when they are not a part of an approved junior high school or junior-senior high school in Pennsylvania.

Freshman Year

			Hours	
			Clock	Semester
Eng	101	*English I	3	3
Eng	102	*English II	3	3
Eng	103	*Speech	2	2
Edu	100	Social Foundations of Education	3	3
Art	101	Fine Arts	3	3
Mus	220	*Fine Arts	3	3
Geo	101	*World Geography	3	3
HEd	101	*Coeducational Physical Activities I	2	1
HEd	150	*Health	2	2
Mat	101	*Introduction to College Mathematics	3	3
Sci	100	Biological Science	3	3
Sci	150	*Physical Science	3	3
			33	32

Sophomore Year

His	101	*History of Civilization I	3	3
His	102	*History of Civilization II	3	3
Lit	221	*Literature I	3	3
Lit	222	*Literature II	3	3
Eng	353	**Speech Problems	3	3
Psy	250	*General Psychology	3	3
Sci	250	**Science for the Elementary Grades	3	3
HEd	201	**Practice and Theory in Elementary Physical Education	2	1
HEd	202	**Dance Activities in the Elementary Program	2	1
Art	202	**Art for the Elementary Grades	3	3
Mus	251	**Music for the Primary Grades, or		
Mus	252	**Music for the Intermediate Grades	3	3
		Elective	3	3
			34	32

Junior Year

Edu	350	Educational Psychology	3	3
Edu	309	**Language Arts	6	6
Edu	300	Audio-Visual Education	3	2
Lit	350	**Children's Literature	3	3
HEd	350	**Health for the Elementary Grades	3	3
His	211	*History of the United States and Pennsylvania I	3	3
Mat	351	**Teaching of Mathematics in Elementary Schools	3	3
Psy	351	*Human Development (Childhood)	3	3
SSc	332	**Teaching Social Studies and Geography in Elementary Schools	3	3
		Elective	3	3
		Elective	2	2
			35	34

Senior Year

Edu	451	Tests and Measurements in Guidance	3	3
Edu	401	Problems of Elementary Education	3	3
Edu	411	Student Teaching and Direction of Student Activities	30	12
Edu	413	Practicum and School Law	2	2
Phi	480	*Introduction to Philosophy	3	3
PSc	231	*American Government	3	3
		Elective	2	2
		Elective	2	2
			48	30
		Total Semester Hours Required for Graduation		128

* Required course in General Education.

** Courses so marked cover content materials, and specialized methods pertaining to the subject area involved.

Areas of Concentration For Elementary Students

All Elementary majors are required to take an area of concentration of at least 18 to 24 semester hours.

The area of concentration may be defined as follows:

1. Study in a single subject such as history; study in a broad field such as sociology, psychology, and anthropology elected from social science; study in an inter-disciplinary field such as courses elected from the humanities, social science, or the natural sciences. Study in an academic field shall include 18 to 24 semester hours, 15 of which may be considered as part of general education.

2. In lieu of the academic field an area of interest of 18 to 24 semester hours may be offered, contingent upon approval of the program by the Department of Public Instruction.

Areas of concentration available to elementary education students are outlined below. The electives indicated for each area count toward the elective credits required for graduation; additional courses needed to meet this elective requirement may be selected in any field (s) of interest. Current information concerning areas of concentration is available from the Education Department.

ENGLISH

Required: English I and II, Speech, General Literature I and II; Children's Literature, Speech Problems 20 s. h.

Electives: 2 elective courses in English ..... 6 s. h.

26 s. h.

ENGLISH AND FOREIGN LANGUAGE

Required: English I and II, Speech, General Literature I and II ..... 14 s. h.

Electives: 12 s. h. in a foreign language (in addition to two years or more of that language in high school) ..... 12 s. h.

26 s. h.

NOTE: Students should select courses under the advisement of the Foreign Language Department

MUSIC

Theory of Music: Foundations of Music; Theory ..... 6 s. h.

Music History and Literature: Fine Arts (Music); History of Music I ..... 6 s. h.

Professional: Music for the Primary Grades; Music for the Intermediate Grades ..... 6 s. h.

Applied Music: Individual Lessons (3 s.h.); Musical Organization (1 s.h.); Choral Conducting (2 s.h.) ..... 6 s. h.

24 s. h.

NATURAL SCIENCES

Required: Introduction to Mathematics, Basic Biology, Basic Physical Science; Science for Elementary Grades, Mathematics for Elementary Grades .. 15 s.h.

Electives: 3 courses in Mathematics (one of which must be in geometry or trigonometry) *or* 3 courses in Science (two courses in the same area—Biology, Chemistry, Physics, or Astronomy-Meteorology —and one course in this or a different area of Science) . . . . . 9-12 s. h.

24-27 s. h.

SOCIAL SCIENCES

Required: World Geography, History of Civilization I and II, History of United States and Pennsylvania, American Government; Teaching of Social Studies and Geography in Elementary Grades . . 18 s. h.

Electives: 2 courses (one in Sociology, one in Economics) 6 s. h.

24 s. h.

PSYCHOLOGY

Required: General Psychology, Educational Psychology, Human Development (Childhood), Tests and Measurements in Guidance . . . . . 12 s. h.

Electives: . . . . . 12 s. h.

24 s. h.

SPECIAL EDUCATION

Required: Art for Elementary Grades, General Psychology, Educational Psychology, Human Development, Tests and Measurements in Guidance . . . . . 15 s. h.

Electives: Courses required for certification in Special Education . . . . . 11 s. h.

26 s. h.

Elementary Education Curriculum

GENERAL EDUCATION

TOTAL . 65 s. h.

Humanities

Art	101	Fine Arts	3	
Eng	101-102	English Composition	6	
Eng	103	Speech	2	
Lit	221-222	Literature	6	
Mus	220	Fine Arts	3	
Phi	480	Introduction to Philosophy	3	23 s. h.

Natural Sciences

Mat	101	Introduction to College Mathematics	3	
Sci	100	Basic Biological Science	3	
Sci	150	Basic Physical Science	3	
Sci	Elective	(Selected Under Advisement)	3	12 s. h.

Social Sciences

Geo	101	World Geography	3	
His	101-102	History of Civilization	6	
His	211	United States and Pennsylvania I	3	
PSc	231	American Government	3	
Psy	250	General Psychology	3	18 s. h.

Other

Electives		(Selected Under Advisement)	9	
HEd	101	Physical Education	1	
HEd	150	Health	2	12 s. h.

PROFESSIONAL EDUCATION

TOTAL ... 31 s. h.

Social Foundations

Edu	100	Social Foundations of Education	3	3 s. h.

Psychology

Edu	350	Educational Psychology	3	
Psy	351	Human Development (Childhood)	3	6 s. h.

Curriculum Materials and Methods

Edu	300	Audio-Visual Education	2	
Edu	401	Problems of Elementary Education	3	
Edu	451	Tests and Measurements in Guidance	3	8 s. h.

Practicum and Student Teaching

Edu	411	Student Teaching	12	
Edu	413	Professional Practicum	2	14 s. h.

SPECIALIZED PREPARATION

TOTAL ... 32 s. h.

Art	202	Art for Elementary Grades	3
Edu	309	Language Arts or (Edu 319 Teaching of Reading 3 credits) (Edu 317 Teaching of Language Arts 3 credits)	6

Lit	350	Children's Literature	3
Eng	353	Speech Problems	3
HEd	201	Practice and Theory in Elementary Physical Education	1
HEd	202	Dance Activities in the Elementary Program	1
HEd	350	Health for Elementary Grades	3
Mat	351	Mathematics for Elementary Grades	3
Mus	251 or 252	Music for Elementary Grades	3
Sci	250	Science for Elementary Grades	3
SSc	332	Teaching Social Studies and Geography in Elementary Grades	3

SUMMARY: Elementary Education Curriculum

General Education	65
Professional Education	31
Specialized Preparation	32
TOTAL	128

Electives

All electives offered by the Art Department, Education Department, Foreign Language Department, Mathematics Department and Social Science Department are open to students majoring in Elementary Education providing they have met the prerequisites for such courses.

The following courses may also be elected by Elementary Education students, but the availability of some courses varies each semester with the needs of major students in the respective departments. Other elective courses in these departments are open to Elementary Education students by special permission of the department involved. Students are responsible for ascertaining and meeting the prerequisites for each elective course chosen.

			s. h.
Lit	223	American Literature I	3
Lit	224	American Literature II	3
Lit	225	English Literature I	3
Lit	226	English Literature II	3
Eng	314	History of Language	3
Eng	315	Advanced Grammar	3
Lit	329	Classical Mythology	1
Lit	333	Shakespeare I	3
Lit	334	Shakespeare II	3
Lit	336	The Romantic Movement	3
Lit	343	Contemporary Poetry	3
Lit	348	Short Story	3
Lit	349	Bible as Literature	3
ThA	105	Creative Theater for the Elementary School	3

ThA	206	Theater Production for Schools	3
Geo	100	Physical Geography for Elementary Teachers	3
Geo	102	Geography of the United States and Pennsylvania	3
Geo	201	Conservation of Natural Resources	3
Geo	204	Geography of Pennsylvania	3
Geo	207	Geography of Europe	3
Geo	208	Geography of Latin America	3
Geo	210	Geographic Influences in American History	3
Geo	211	Map Appreciation and Interpretation	3
HEd	331	Aquatic Leadership	2
HEd	341	Modern Dance I	2
HEd	342	Modern Dance II	2
HEd	367	Arts and Crafts in Recreation	3
HEd	481	Introduction to Safety Education	3
Mus	100	Foundations of Music	3
Mus	327	Teaching Music Appreciation in the Elementary Grades	3
Mus	401	Piano Class (Elementary Teachers)	3
Mus		Applied Music (007-010)	1
Sci	252	Earth Science	3
Bio	111	Botany I	4
Bio	112	Botany II	4
Bio	141	Zoology I	4
Bio	142	Zoology II	4
Bio	210	Field Botany	3
Bio	241	Field Zoology	3
Bio	242	Ornithology	3
Bio	301E	Basic Genetics	3
Bio	302	Ecology	3
Bio	341	Entomology	3
Bio	355	Conservation of Plant and Animal Resources	3
Phy	330	General Astronomy	3

B. The Secondary Curriculum

A major in Secondary Education may be earned in English, Foreign Languages, Geography, Mathematics, Science, and Social Sciences (See special programs in Health and Physical Education and Music). The General Education requirement and the Professional Education requirement are basically the same for any student preparing to teach in the secondary schools regardless of the academic major.

Upon satisfactory completion of the requirements of this curriculum, the student will be granted the degree of Bachelor of Science in Education by the College and will qualify for a Pennsylvania Provisional College Certificate. This certificate will be valid for teaching specific subjects in an approved secondary school in Pennsylvania for three years. Students are required to choose one area of specialization. These areas are indicated on the following pages.

(Sequence of courses subject to change for administrative reasons).

GENERAL AND PROFESSIONAL REQUIREMENTS FOR ALL CURRICULA

			Hours	
		FIRST SEMESTER	Clock	Semester
Eng	101	*English I	3	3
Eng	103	*Speech	2	2
Sci	100	*Biological Science	3	3
Geo	101	*World Geography	3	3
HEd	104	*Coeducational Physical Activities I	2	1
		Elective	3	3
			16	15
		SECOND SEMESTER		
Eng	102	*English II	3	3
Sci	150	*Physical Science	3	3
Edu	100	Social Foundations of Education	3	3
Mat	101	*Introduction to College Mathematics	3	3
HEd	204	*Coeducational Physical Activities II	2	1
		Elective	3	3
			17	16
		THIRD SEMESTER		
His	101	*History of Civilization I	3	3
Lit	221	*Literature I	3	3
Art	101	*Fine Arts	3	3
HEd	150	*Health	2	2
		Elective	6	6
			17	17

*Required course in General Education.

			Hours Clock	Semester
		FOURTH SEMESTER		
His	102	*History of Civilization II	3	3
Lit	222	*Literature II	3	3
Mus	220	*Fine Arts	3	3
HEd	205	*Dance Activities in Secondary Schools	2	1
Psy	250	*General Psychology	3	3
		Electives	3	3
			17	16
		FIFTH SEMESTER		
His	212	*History of the United States and Pennsylvania II	3	3
Edu	350	Educational Psychology	3	3
Psy	352	Human Development (Adolescence)	3	3
Edu	320	Teaching of Reading in Secondary School Academic Subjects	2	2
		Electives	7	7
			18	18
		SIXTH SEMESTER		
Edu	300	Audio-Visual Education	3	2
Edu	302	Problems of Secondary Education Including Guidance	3	3
Edu	451	Tests and Measurements in Guidance	3	3
		Methods Course in Specialized Field	3	3
		Electives	6	6
			18	17
		SEVENTH SEMESTER		
Phi	480	*Introduction to Philosophy	3	3
PSc	231	*American Government	3	3
		Electives	9	9
			15	15
		EIGHTH SEMESTER		
Edu	412	Student Teaching and Direction of Student Activities	30	12
Edu	414	Professional Practicum and School Law	2	2
			32	14
		Total Semester Hours Required for Graduation		128

*Required course in General Education.

Specialization For Secondary Teaching

Specialization in one of the teaching fields listed below is required for graduation in Secondary Education. For a particular field, fulfillment of the requirement listed will satisfy the teacher certification requirements in Pennsylvania.

Students who wish to be certified to teach in a second field must meet the minimum requirement for certification which is shown in the second column.

As the second column indicates, no second field is offered in five of these specializations. However, it is possible to meet certification requirements for a second field by attending one or more summer sessions during the four-year college program. This is usually undertaken after the sophomore and/or junior years.

The minimum semester hour requirement for each of the fields of specialization is as follows:

	First Field	Second Field
Biology	48	36
Chemistry	44	32
Comprehensive English	36	—
Comprehensive Science	44	—
Comprehensive Social Studies	48	—
Earth and Space Science	44	—
French	30	24
Geography	30	24
German	30	24
History	48	—
Latin	30	24
Mathematics	36	24
Physics	42	30
Russian	30	24
Spanish	30	24

Areas of Specialization

Note: The reader, seeking one of the fields listed above, will find it helpful to observe that this section has been arranged according to the following plan:

1. Comprehensive English
2. Foreign Languages
3. Geography
4. Mathematics
5. Sciences
   a. Biology
   b. Chemistry
   c. Comprehensive Science
   d. Earth and Space Science
   e. Physics
6. Social Sciences
   a. Comprehensive Social Studies
   b. History

I. COMPREHENSIVE ENGLISH

(First field 36 Semester Hours; No second field)

REQUIRED			Hours Clock	Hours Semester
Lit	227	This is a special course taken in lieu of Literature 222 in the General Education Program. Literature 227 does not duplicate any of the material in the required English Literature I or II	3	3
Lit	225	English Literature I	3	3
Lit	226	English Literature II	3	3
Lit	223	American Literature I	3	3
Lit	224	American Literature II	3	3
Eng	314	History of the Language, including Linguistics	3	3
Eng	313	Advanced Writing	3	3
Eng	315	Advanced Grammar	3	3

ELECTIVES

Twelve semester hours are elected from the following courses to bring the total of English semester hours to 36 beyond the elementary courses in the General Education Program. (English 101, 102, 103, and Literature 221 are not included in the 36-hour total).

Group 1		(Choose at least one)		
Eng	317	Old English Language and Literature	3	3
Eng	318	Middle English Language and Literature	3	3
Lit	330	Medieval Literature in England	3	3
Lit	331	Chaucer	3	3
Lit	332	English Drama to the Renaissance	3	3
Lit	333	Shakespeare I	3	3
Lit	334	Shakespeare II	3	3
Lit	339	Tudor-Stuart Literature	3	3

Group 2		(Choose at least one)		
Lit	335	Eighteenth Century Literature	3	3
Lit	336	The Romantic Movement	3	3
Lit	337	Victorian Literature	3	3
Lit	341	Novel to 1870	3	3
Lit	321	Great Books I	3	3
Lit	322	Great Books II	3	3
Lit	329	Classical Mythology	1	1

Group 3		(Choose at least one)	Hours Clock	Hours Semester
Eng	211	Journalism	3	3
Eng	345	Criticism	3	3
Lit	349	Bible as Literature	3	3
Lit	342	Contemporary Novel	3	3
Lit	343	Contemporary Poetry	3	3
Lit	351	Modern Drama I	3	3
Lit	352	Modern Drama II	3	3
Lit	346	Essay	3	3
Lit	348	Short Story	3	3

ENGLISH SERVICE COURSES

These courses do not carry credit toward the basic 36 hours required for a field in English but may be used as supplemental credits.

Lit	350	Children's Literature	3	3
Eng	353	Speech Problems	3	3
Eng	355	Speech Clinic	1	1
Eng	356	Introduction to Hearing Problems	3	3

Theater Arts Program

The following courses designed for students in Liberal Arts may be taken by the Secondary English majors as supplemental credits. They are not part of the 36-hour program.

ThA	101	Theater Workshop	1	1
ThA	102	Oral Interpretation	3	3
ThA	103	Principles of Acting	3	3
ThA	104	Principles of Stagecraft and Lighting	3	3
ThA	105	Creative Theater for the Elementary School	3	3
ThA	201	Principles of Costuming and Makeup	3	3
ThA	202	Principles of Designing for Stage	3	3
ThA	203	Principles of Play Production and Directing	3	3
ThA	204*	Television I	3	3
ThA	205*	Television II	3	3
ThA	206	Theater Production for Schools	3	3
ThA	301	History of Drama and Theater I	3	3
ThA	302	History of Drama and Theater II	3	3

* Requires prior consultation with the instructor.

Suggested Program For English Majors

FIRST SEMESTER

			Hours Clock	Hours Semester
Eng	101	English I	3	3
Eng	103	Speech	2	2
Sci	100	Biological Science	3	3
HEd	104	Physical Education	2	1
Lit	225	English Literature I	3	3
	103*	Foreign Language	3	3

SECOND SEMESTER

Eng	102	English II	3	3
Sci	150	Physical Science	3	3
Edu	100	Social Foundations of Education	3	3
HEd	204	Physical Education	2	1
Lit	226	English Literature II	3	3
	104*	Foreign Language	3	3

THIRD SEMESTER

Geo	101	World Geography	3	3
His	101	History of Civilization I	3	3
Lit	221	General Literature I	3	3
Art	101	Fine Arts	3	3
HEd	150	Health	2	2
Eng	315	Advanced Grammar	3	3

FOURTH SEMESTER

Mat	101	Introduction to College Math	3	3
His	102	History of Civilization II	3	3
Lit	227	Literature	3	3
HEd	205	Physical Education	2	1
Psy	250	General Psychology	3	3
Eng	313	Advanced Writing	3	3

FIFTH SEMESTER

Mus	220	Fine Arts	3	3
Edu	350	Educational Psychology	3	3
Psy	352	Human Development	3	3
Edu	320	Teaching of Reading in the Secondary Schools	3	3
Lit	223	American Literature I	3	3
Eng	316	Teaching English in the Secondary Schools	3	3
	or			
Eng	314	History of Language	3	3
		English Elective	3	3

* Students who have not had a foreign language in high school will begin with a Foreign Language 101.

SIXTH SEMESTER

			Hours Clock	Hours Semester
Edu	300	Audio-Visual Education	3	3
Edu	302	Problems of Secondary Education	3	3
Edu	451	Tests and Measurements	3	3
Lit	224	American Literature II	3	3
Eng	316	Teaching English in the Secondary Schools	3	3
		or		
Eng	314	History of Language	3	3
		English Elective	3	3

SEVENTH SEMESTER

His	212	History of U.S. and Pa.	3	3
Phi	480	Introduction to Philosophy	3	3
PSc	231	American Government	3	3
		English Electives	6	6

EIGHTH SEMESTER

Edu	412	Student Teaching	30	12
Edu	414	Professional Practicum	2	2

2. FOREIGN LANGUAGES

Thirty semester hours of credit are required for a major in any one of the following languages: French, Spanish, German, Russian or Latin. A minor may be obtained in any one of these languages with 24 semester hours of credit.

Certification in "Comprehensive Foreign Language" may be obtained by taking 24 semester hours in a first language and 12 semester hours in a second for a total of 36 semester hours.

a. French

(Major or Minor Field Offered)

REQUIRED —

Fre	101	Elementary French I	3	3
Fre	102	Elementary French II	3	3
Fre	103	Intermediate French I	3	3
Fre	104	Intermediate French II	3	3

ELECTIVES —

Fre	201	Survey of Literature I	3	3
Fre	202	Survey of Literature II	3	3
Fre	203	Advanced Grammar and Composition	3	3

Fre	301	Advanced Language and Techniques	3	3
Fre	302	General Linguistics	3	3
Fre	303	French in the Elementary School	3	3
Fre	304	French Civilization	3	3
Fre	401	French Literature of the 18th Century	3	3
Fre	402	French Literature of the 19th Century	3	3
Fre	403	Contemporary French Literature	3	3
Fre	404	French Classical Drama	3	3

The Junior Year at Besancon Program

Course Offerings

The following courses in French will be offered at the University of Besancon, France, under the Junior Year at Besancon Program sponsored by West Chester State College. The Program is designed for prospective teachers of French in order to give them a first-hand acquaintance with French life and enable them to achieve a native command of the language. It is open to any student enrolled in a Pennsylvania college or university who has completed the equivalent of two years of college French and is able to take lectures in French. During the time the student is enrolled in the program, he is a student of West Chester State College and will receive credit for a full two semesters of college work after successful completion of the year abroad program of studies. Each course will run for two semesters and will be conducted entirely in French by French professors.

Course Title	Semester Hours Credit
Advanced Grammar and Composition Fre 361-62	6
Advanced French Conversation Fre 363-64	6
Phonetics and Translation Fre 365-66	6
Contemporary French Civilization Fre 367-68	6
Linguistic Studies Fre 369-70	6

b. German

(Major or Minor Field Offered)

			Hours Clock	Hours Semester
REQUIRED —				
Ger	101	Elementary German I	3	3
Ger	102	Elementary German II	3	3
Ger	103	Intermediate German I	3	3
Ger	104	Intermediate German II	3	3

			Hours Clock	Semester
ELECTIVES —				
Ger	201	Survey of Literature I	3	3
Ger	202	Survey of Literature II	3	3
Ger	203	Advanced Grammar and Composition	3	3
Ger	301	Advanced Language and Techniques	3	3
Ger	302	General Linguistics	3	3
Ger	401	The Age of Goethe	3	3
Ger	402	Contemporary German Literature	3	3
Ger	403	The German Short Story	3	3
Ger	404	Goethe	3	3
Ger	405	Scientific German	3	3
Ger	406	German Civilization	3	3

c. Latin

(Major or Minor Field Offered)

REQUIRED —				
Lat	101	Elementary Latin I	3	3
Lat	102	Elementary Latin II	3	3
Lat	201	Cicero	3	3
Lat	202	Virgil	3	3
Lat	203	Roman Historians	3	3
ELECTIVES —				
Lat	301	Advanced Language and Techniques	3	3
Lat	302	The Lyric Poets	3	3
Lat	303	Latin Prose Composition	3	3
Lat	304	The Elegiac Poets	3	3
Lat	401	Roman Drama	3	3
Lat	402	Roman Philosophy	3	3
Lat	403	Roman Satire	3	3
Lat	404	The Latin Novel	3	3
Lat	405	Tutorial Course	3	3

d. Greek

(No Major or Minor Field Offered in Greek)

ELECTIVES —				
Gre	101	Elementary Greek I	3	3
Gre	102	Elementary Greek II	3	3
Gre	103	Intermediate Greek I	3	3
Gre	104	Intermediate Greek II	3	3

e. Russian

(Major or Minor Field Offered)

REQUIRED —

Rus	101	Elementary Russian I	3	3
Rus	102	Elementary Russian II	3	3
Rus	103	Intermediate Russian I	3	3
Rus	104	Intermediate Russian II	3	3

ELECTIVES —

Rus	201	Advanced Readings I	3	3
Rus	202	Advanced Readings II	3	3
Rus	203	Advanced Grammar and Composition	3	3
Rus	301	Advanced Language and Techniques	3	3
Rus	302	General Linguistics	3	3
Rus	303	Scientific Russian I	3	3
Rus	304	Scientific Russian II	3	3
Rus	401	The Russian Novel	3	3
Rus	402	The Russian Drama	3	3

f. Spanish

(Major or Minor Field Offered)

REQUIRED —

Spa	101	Elementary Spanish I	3	3
Spa	102	Elementary Spanish II	3	3
Spa	103	Intermediate Spanish I	3	3
Spa	104	Intermediate Spanish II	3	3

ELECTIVES —

Spa	201	Survey of Literature (Golden Age)	3	3
Spa	202	Survey of Literature (since 1800)	3	3
Spa	203	Advanced Grammar and Composition	3	3
Spa	301	Advanced Language and Techniques	3	3
Spa	302	General Linguistics	3	3
Spa	303	Spanish in the Elementary School	3	3
Spa	304	Spanish Civilization	3	3
Spa	401	Spanish-American Literature	3	3
Spa	402	Contemporary Spanish Literature	3	3
Spa	403	The Spanish "Comedia"	3	3
Spa	404	The Picaresque Novel	3	3

g. Italian

(No Major or Minor Field Offered in Italian)

			Hours	
ELECTIVES —			Clock	Semester
Ita	101	Elementary Italian I	3	3
Ita	102	Elementary Italian II	3	3
Ita	103	Intermediate Italian I	3	3
Ita	104	Intermediate Italian II	3	3

3. GEOGRAPHY

(First field 30 Semester Hours; Second field 24 Semester Hours)

REQUIRED —

Geo	101	World Geography	3	3
Geo	202	Geography of the U.S. and Canada	3	3
Geo	203	Economic Geography	3	3
Geo	205	Geomorphology	3	3
Geo	206	Introduction to Climate	3	3
Geo	211	Map Appreciation and Interpretation	3	3
Geo	311	*Teaching Geography in Secondary Schools	3	3

RESTRICTED ELECTIVES —

At least one course must be chosen from each of Groups 1, 2. and 3.

Group 1. ECONOMIC AND POLITICAL STUDIES

Geo	201	Conservation of Natural Resources	3	3
Geo	209	The U. S. in its Global Relations	3	3
Geo	308	Trade and Transportation	3	3
Geo	309	World Problems in Geography	3	3
Geo	313	Geography of Population	3	3
Geo	314	Urban and Regional Planning	3	3

Group 2. REGIONAL STUDIES

Geo	102	Geography of the U. S. and Pennsylvania	3	3
Geo	204	Geography of Pennsylvania	3	3
Geo	207	Geography of Europe	3	3
Geo	208	Geography of Latin America	3	3
Geo	304	Geography of Asia	3	3
Geo	305	Geography of the Far East	3	3
Geo	306	Geography of Africa	3	3
Geo	307	Geography of the Soviet Union	3	3
Geo	312	Geography of Australia and Associated Islands	3	3

* Required for a first field; may not be used to satisfy the minimum requirements for a second field.

			Hours Clock	Semester
Group 3. SPECIAL STUDIES IN GEOGRAPHY				
Geo	100	Physical Geography for Teachers	3	3
Geo	210	Geographic Influence in American History	3	3
Geo	301	Introduction to Geology	3	3
Geo	302	Climatology	3	3
Geo	303	Cartography	3	3
Geo	310	Geography Field Study Methods	3	3
Geo	315	Geography Area Field Study Courses I, II, and III	3-6-9	3-6-9
Geo	316	Geography Seminars I or II	3	3

4. MATHEMATICS

(First field 36 Semester Hours; Second field 24 Semester Hours)

REQUIRED —

Mat	106	Foundations of Mathematics	3	3
Mat	141	Analytic Geometry and Calculus I	3	3
Mat	142	Analytic Geometry and Calculus II	3	3
Mat	231	Modern Geometry I	3	3
Mat	241	Analytic Geometry and Calculus III	3	3
Mat	242	Analytic Geometry and Calculus IV	3	3
Mat	343	Differential Equations	3	3
Mat	350	Teaching of Mathematics in Secondary Schools	3	3
Mat	411	Modern Algebra I	3	3
Mat	421	Mathematical Statistics I	3	3
Mat	441	Advanced Calculus I	3	3
Phy	101-102	Physics I and II (to replace Sci 100 and Sci 150)	12	8

ELECTIVES —

Mat	211	Linear Algebra	3	3
Mat	232	Modern Geometry II	3	3
Mat	401	History of Mathematics	3	3
Mat	405	Special Topics in Mathematics	3	3
Mat	412	Modern Algebra II	3	3
Mat	414	Theory of Numbers	3	3
Mat	422	Mathematical Statistics II	3	3
Mat	425	Numerical Analysis	3	3
Mat	432	Topology	3	3
Mat	442	Advanced Calculus II	3	3
Mat	445	Complex Variable	3	3

5. SCIENCES

a. BIOLOGY

(First field 48 Semester Hours; Second field 36 Semester Hours)

The specialty in biology provides opportunities for students to become acquainted with the principles of biology and their application in both the plant and animal kingdom. The program provides background for the three BSCS versions. Graduates in this specialty are ready to do graduate work in biology.

Basic Physical Science (Sci 150), Basic Biology (Sci 100), and Introduction to College Mathematics (Mat 101) are not required in the biology program.

The program falls into three categories.

I.	General Education	60 s. h.
II.	Professional Education	36 s. h.
III.	Specialized Preparation	36 s. h.

REQUIRED —

			Hours Clock	Hours Semester
a. Related Fields				
Che	121	General Chemistry I	6	4
Che	122	General Chemistry II	6	4
Che	321	*Organic Chemistry I	6	4
Mat	105	Algebra and Trigonometry	3	3
Sci	350	*Teaching of Science in Secondary Schools	5	3
b. Biology				
Bio	111	Botany I	6	4
Bio	112	Botany II	6	4
Bio	141	Zoology I	6	4
Bio	142	Zoology II	6	4
Bio	301	Genetics	5	3
Bio	302	Ecology	5	3
Bio	344	General Physiology	5	3
Bio	450	Biology Seminar	2	1

STRONGLY RECOMMENDED —

Bio	351	Embryology	5	3
Bio	310	Bacteriology	5	3
Mat	303	Statistics	3	3
Mat	142	Analytic Geometry and Calculus II	3	3
Mat	241	Analytic Geometry and Calculus III	3	3
Phy	101	General Physics I	5	4
Phy	102	General Physics II	5	4

* Not required for a second field.

ELECTIVES —			Hours Clock	Semester
Bio	243	Comparative Anatomy	5	3
Bio	261	Human Anatomy	6	4
Bio	262	Human Physiology	6	4
Bio	341	Entomology	5	3
Bio	345	Plant Physiology	5	3
Bio	346	Plant Structure	5	3
Bio	402	Cytology	5	3
Bio	411	Plant Taxonomy	5	3
Bio	452	Special Problems in Biology		1 to 3

Serious students of biology are urged to elect the courses that are listed in the strongly recommended list.

b. CHEMISTRY

(First field 44 Semester Hours; Second field 32 Semester Hours)

The specialty in chemistry is designed to acquaint students with the principles of chemistry and their application in the important divisions of chemistry and to enable students to develop competency in classical as well as instrumental laboratories.

Basic Physical Science (Sci 150) and Introduction to Mathematics (Mat 101) are not a part of the chemistry program.

The program falls into three categories.

I.	General Education	60 s. h.
II.	Professional Education	36 s. h.
III.	Specialized Preparation	35 s. h.

REQUIRED —				
a. Related Fields				
Phy	101	Physics I	5	4
Phy	102	Physics II	5	4
Mat	141	Analytic Geometry and Calculus I	3	3
Mat	142	Analytic Geometry and Calculus II	3	3
Mat	241	Analytic Geometry and Calculus III	3	3
*Sci	350	Teaching Science in the Secondary School	5	3
b. Chemistry				
Che	121	General Chemistry I	6	4
Che	122	General Chemistry II and Qualitative Analysis	6	4
*Che	321	Organic Chemistry I	6	4
Che	222	Quantitative Analysis	8	4
Che	421	Instrumental Methods of Analysis	7	3
*Che	325	Physical Chemistry I	6	4

*Not required for a second field.

			Hours Clock	Semester
ELECTIVES —				
Che	322	Organic Chemistry II	6	4
Che	326	Physical Chemistry II	6	4
Che	431	Industrial Chemical Processes	5	3
Che	442	Introduction to Chemical Research		2-6
Che	441	History and Literature of Chemistry		2

The serious student of chemistry is strongly urged to elect mathematics through Mat 343 (Differential Equations) and three of the elective chemistry courses.

c. COMPREHENSIVE SCIENCE

(First field 44 Semester Hours; No second field)

The specialty in comprehensive science is designed to provide breadth of training for individuals who desire to prepare for teaching science in the junior high school.

Basic Physical Science (Sci 150), Basic Biology (Sci 100), and Introduction to Mathematics (Mat 101) are not required for this specialization.

The program falls into three categories.

I.	General Education	60 s. h.
II.	Professional Education	36 s. h.
III.	Specialized Preparation	32 s. h.

REQUIRED —				
Bio	111 or 112	(Botany I or Botany II)	6	4
Bio	141 or 142	(Zoology I or Zoology II)	6	4
Che	121	General Chemistry I	6	4
Che	122	General Chemistry II	6	4
Phy	101	Physics I	5	4
Phy	102	Physics II	5	4
Phy	330	General Astronomy	3	3
Sci	261	Physical Geology	5	4
Sci	350	Teaching Science in the Secondary Schools	5	3
Mat	105	College Algebra & Trigonometry	3	3
ELECTIVES —				
Geo	206	Meteorology	3	3
Sci	262	Historical Geology	5	4
Any biology, chemistry, or physics course				

Individuals who enroll in this field are strongly urged to obtain sufficient background in mathematics and an area of science to permit them to pursue graduate work.

d. EARTH AND SPACE SCIENCE

(First field 44 Semester Hours; No second field)

This specialization is designed for individuals who have an interest in teaching earth science courses which are now becoming a part of the secondary school curriculum. A person with this specialization also meets the requirements for certification in general science, qualifying him to teach science in grades 7, 8, and 9.

The program to be followed is identical to that for comprehensive science except for the electives. Electives will be selected from among the following:

			Hours Clock	Hours Semester
Sci	262	Historical Geology	5	4
Sci	263	Mineralogy and Petrology	4	3
Sci	264	Geo-chemistry	3	3
Geo	206	Meteorology	3	3
Geo	302	Climatology	3	3

e. PHYSICS

(First field 42 Semester Hours*; Second field 30 Semester Hours)

The specialty in physics is designed to acquaint students with the important areas of physics through the intermediate level and to give them opportunities to begin advanced study in selected areas.

Basic Physical Science (Sci 150) and Introduction to Mathematics (Mat 101) are not part of the physics program.

The program falls into three categories.

I. General Education	60 s. h.
II. Professional Education	36 s. h.
III. Specialized Preparation	33 s. h.

REQUIRED —

a. Related Fields

**Che	121	General Chemistry I	6	4
**Che	122	General Chemistry II	6	4
Mat	141	Analytic Geometry and Calculus I	3	3

*This figure includes Che 121 and Mat 131 which are credited to general education requirements and Sci 350 which is part of professional education. Excluding these, the number of required credits in the area of specialization is 33 s. h.

Serious students of physics are strongly urged to elect mathematics through Mat 343 (Differential Equations) and three of the elective physics courses.

** Not required for a second field.

			Hours Clock	Hours Semester
Mat	142	Analytic Geometry and Calculus II	3	3
Mat	241	Analytic Geometry and Calculus III	3	3
***Sci	350	Teaching Science in the Secondary School	3	3
Phy	101	Physics I	5	4
Phy	102	Physics II	5	4
Phy	212	Mechanics	5	4
Phy	233	Introduction to Modern Physics	5	4
Phy	421	Electricity and Magnetism	5	4
Phy	444	Physics Seminar	2	1
ELECTIVES —				
Phy	413	Analytical Dynamics	3	3
Phy	414	Heat and Thermodynamics	3	3
Phy	422	Optics	5	4
Phy	423	Electronics	5	4
Phy	432	Atomic and Nuclear Physics	5	4
Phy	440	Introduction to Research		1-3

***Not required for a second field.

6. SOCIAL SCIENCES

a. Comprehensive Social Studies

(First field 48 Semester Hours; No second field)

A student may qualify for the Comprehensive Social Science Certificate by completing a minimum of twenty-four (24) semester hours in history, and a minimum of twenty-four (24) semester hours in the other social sciences.

REQUIRED —				
*His	101	History of Civilization I	3	3
*His	102	History of Civilization II	3	3
*His	211	History of the United States and Pennsylvania I	3	3
His	212	History of the United States and Pennsylvania II	3	3
*PSc	231	American Government	3	3
Eco	231	Principles of Economics	3	3
Soc	231	Introduction to Sociology *or*	3	3
Ant	231	Cultural Anthropology	3	3
**SSc	331	Teaching Social Studies in Secondary Schools	3	3
SSc	400	Senior Seminar	3	3

*Required in General Education.
**Required in Professional Education.

RESTRICTED ELECTIVES —

History: 12 semester hours with at least 3 hours from each of Groups 1, 2, and 3.

Social Science: 12 hours from Groups 4 and 5 with at least 3 hours from Economics, 3 hours from Political Science, 3 hours from Sociology or Anthropology, and 3 hours from Geography.

			Hours Clock	Semester
Group 1. UNITED STATES HISTORY				
His	313	History of Pennsylvania	3	3
His	314	Diplomatic History of the United States	3	3
His	315	Economic History of the United States	3	3
His	316	History of the American Frontier	3	3
His	317	History of American Science and Technology	3	3
His	318	Constitutional History of the United States	3	3
His	319	Social and Intellectual History of the United States	3	3
His	320	History of the South	3	3
Group 2. EUROPEAN HISTORY				
His	219	Medieval Europe	3	3
His	220	Renaissance and Reformation	3	3
His	221	Modern Europe to 1815	3	3
His	222	Modern Europe since 1815	3	3
His	321	History of England	3	3
His	326	History of Russia	3	3
Group 3. REGIONAL HISTORY				
His	218	Ancient World	3	3
His	322	History of South Asia	3	3
His	323	History of the Middle East	3	3
His	324	History of Latin America	3	3
His	325	History of Twentieth Century World	3	3
His	327	The British Empire and Commonwealth	3	3
His	328	History of Modern Africa	3	3
His	329	History of East Asia	3	3
Group 4. SOCIAL SCIENCES				
Ant	231	Introduction to Cultural Anthropology	3	3
Ant	331	Human Evolution	3	3
Ant	332	Social Organization	3	3
Ant	333	Cultural Dynamics	3	3

			Hours Clock	Semester
Ant	334	World Ethnography	3	3
Eco	332	Contemporary Economic Problems	3	3
Eco	333	Consumer Economics	3	3
Eco	334	Industrial Relations	3	3
Eco	335	Money and Banking	3	3
Eco	336	Business and Government	3	3
Eco	337	Economic Growth and Development	3	3
Eco	338	International Economics	3	3
PSc	331	State and Local Government	3	3
PSc	332	Comparative Government	3	3
PSc	333	International Relations	3	3
PSc	334	American Political Parties	3	3
PSc	336	Soviet Government and Politics	3	3
PSc	335	American Political Ideas	3	3
PSc	337	American Foreign Policy	3	3
PSc	338	Introduction to Political Thought	3	3
PSc	339	Elements of Public Administration	3	3
PSc	340	American Constitutional Law	3	3
Soc	332	Contemporary Social Problems	3	3
Soc	333	The Family	3	3
Soc	334	Juvenile Delinquency	3	3
Soc	335	Racial and Cultural Minorities	3	3
Soc	336	Urban Sociology	3	3
Soc	337	Sociological Theory	3	3
Soc	338	Criminology	3	3
Soc	339	Social Stratification	3	3
Soc	400	Methods in Social Research Seminar	3	3

Group 5. GEOGRAPHY

Geo	201	Conservation of Natural Resources	3	3
Geo	202	Geography of United States and Canada	3	3
Geo	203	Economic Geography	3	3
Geo	204	Geography of Pennsylvania	3	3
Geo	207	Geography of Europe	3	3
Geo	208	Geography of Latin America	3	3
Geo	209	The United States in its Global Relationships	3	3
Geo	210	Geographic Influence in American History	3	3
Geo	306	Geography of Africa	3	3
Geo	307	Geography of the U. S. S. R.	3	3
Geo	308	Trade and Transportation	3	3
Geo	309	World Problems	3	3

b. History

(First field 48 Semester Hours; No second field)

A student may qualify for the History Certificate by completing a minimum of thirty-six (36) semester hours in history, and a minimum of twelve (12) semester hours in the other social sciences.

			Hours Clock	Hours Semester
REQUIRED —				
*His	101	History of Civilization I	3	3
*His	102	History of Civilization II	3	3
*His	211	History of the United States and Pennsylvania I	3	3
His	212	History of the United States and Pennsylvania II	3	3
*PSc	231	American Government	3	3
**SSc	331	Teaching Social Studies in Secondary Schools	3	3
SSc	400	Senior Seminar	3	3

*Required in General Education.
**Required in Professional Education.

RESTRICTED ELECTIVES —

History majors select a concentration area in American History or World Cultures.

American History Concentration:

His	313	History of Pennsylvania	3	3
Electives from Group 1			12	12
History electives: Groups 2 and 3			9	9
Elective in Economics			3	3
Elective in Anthropology or Sociology			3	3

World Cultures Concentration:

Ant	231	Cultural Anthropology	3	3
History electives:				
Group 2			9	9
Group 3			9	9
Group 1			6	6
Elective in Economics			3	3

Group 1. UNITED STATES HISTORY

His	313	History of Pennsylvania	3	3
His	314	Diplomatic History of the United States	3	3
His	315	Economic History of the United States	3	3

			Hours Clock	Semester
His	316	History of the American Frontier	3	3
His	317	History of American Science and Technology	3	3
His	318	Constitutional History of the United States	3	3
His	319	Social and Intellectual History of the United States	3	3
His	320	History of the South	3	3

Group 2. EUROPEAN HISTORY

His	219	Medieval Europe	3	3
His	220	Renaissance and Reformation	3	3
His	221	Modern Europe to 1815	3	3
His	222	Modern Europe since 1815	3	3
His	321	History of England	3	3
His	326	History of Russia	3	3

Group 3. REGIONAL HISTORY

His	218	Ancient World	3	3
His	322	History of South Asia	3	3
His	323	History of the Middle East	3	3
His	324	History of Latin America	3	3
His	325	History of Twentieth Century World	3	3
His	327	The British Empire and Commonwealth	3	3
His	328	History of Modern Africa	3	3
His	329	History of East Asia	3	3

Group 4. SOCIAL SCIENCES

Ant	231	Introduction to Cultural Anthropology	3	3
Ant	331	Human Evolution	3	3
Ant	332	Social Organization	3	3
Ant	333	Cultural Dynamics	3	3
Ant	334	World Ethnography	3	3
Eco	332	Contemporary Economic Problems	3	3
Eco	333	Consumer Economics	3	3
Eco	334	Industrial Relations	3	3
Eco	335	Money and Banking	3	3
Eco	336	Business and Government	3	3
Eco	337	Economic Growth and Development	3	3
Eco	338	International Economics	3	3
PSc	331	State and Local Government	3	3
PSc	332	Comparative Government	3	3
PSc	333	International Relations	3	3

			Hours	
			Clock	Semester
PSc	334	American Political Parties	3	3
PSc	335	American Political Ideas	3	3
PSc	336	Soviet Government and Politics	3	3
PSc	337	American Foreign Policy	3	3
PSc	338	Introduction to Political Thought	3	3
PSc	339	Elements of Public Administration	3	3
PSc	340	American Constitutional Law	3	3
Soc	332	Contemporary Social Problems	3	3
Soc	333	The Family	3	3
Soc	334	Juvenile Delinquency	3	3
Soc	335	Racial and Cultural Minorities	3	3
Soc	336	Urban Sociology	3	3
Soc	337	Sociological Theory	3	3
Soc	338	Criminology	3	3
Soc	339	Social Stratifications	3	3
Soc	400	Methods in Social Research Seminar	3	3

C. The Health and Physical Education Curriculum

Upon satisfactory completion of the requirements of this curriculum the student will be granted the degree of Bachelor of Science in Health and Physical Education by the College and will qualify for a Pennsylvania Provisional College Certificate. The certificate will be valid for teaching Health and Physical Education in the elementary and secondary schools of Pennsylvania for three years.

All Health and Physical Education major students must meet department extra-curricular requirements before they may attain Senior standing.

1. DEGREE PROGRAM FOR HEALTH AND PHYSICAL EDUCATION

				Hours Clock	Semester
			First Semester		
HEd	111	(Men)	Introduction to Formal Gymnasium Activities	3	1
		(Women)	Soccer, Speedball, Basketball		
HEd	121	(Men)	Individual Sports for Men	3	1
		(Women)	Lacrosse, Track and Field		
HEd	131		Aquatic Fundamentals	3	1
HEd	151		Personal Hygiene	3	3
Eng	101		English I	3	3
Eng	103		Speech	2	2
Edu	100		Social Foundations of Education	3	3
Mat	101		Introduction to College Mathematics	3	3
				23	17
			Second Semester		
HEd	112	(Men)	Introduction to Tumbling, Vaulting	3	1
		(Women)	Gymnastics and Fundamental Exercises		
HEd	122	(Men)	Soccer, Wrestling	3	1
		(Women)	Hockey and Volleyball		
HEd	132		Life Saving, Water Safety	3	1
HEd	153		Community Health	2	2
Eng	102		English II	3	3
Che	120		Basic Chemistry	6	4
Art	101		Fine Arts	3	3
Psy	250		General Psychology	3	3
				26	18

				Hours Clock	Semester
			Third Semester		
HEd	211		Preparation for Teaching Elementary Physical Education 3		1
HEd	221	(Men)	Football, Track and Field 3		1
		(Women)	Advanced Hockey, Lacrosse, Track and Field		
HEd	241		Elementary Rhythms and Folk Dances 3		1
His	101		History of Civilization I 3		3
Lit	221		Literature I 3		3
Sci	150		Basic Physical Science 5		3
Bio	261		Anatomy 5		3
HEd	341		Modern Dance (Women) 2		1
			Elective (Men)		
				27	16
			Fourth Semester		
HEd	212	(Men)	Introduction to Heavy Apparatus 3		1
		(Women)	Advanced Gymnastics		
HEd	222	(Men)	Basketball, Baseball 3		1
		(Women)	Basketball, Tennis		
HEd	242		Social and Square Dancing 3		1
HEd	252		First Aid and Care and Prevention of Athletic Injuries 3		2
His	102		History of Civilization II 3		3
Bio	262		Physiology 6		4
Lit	222		Literature II 3		3
HEd	261		History Physical Education ... 2		2
				26	17
			Fifth Semester		
HEd	362		Physical Education for Elementary Grades 7		3
HEd	361		Tests, Measurements, Statistics for Health and Physical Education 3		3
HEd	351		Human Development 3		3
HEd	365		Physical Activities for the Atypical Child I 2		2
HEd	323	(Men)	Advanced Football, Basketball, Soccer, Track and Field 3		1
		(Women)	Tennis, Softball, Basic Officiating of Hockey and Basketball		
Edu	300		Audio-Visual Education 3		2
Edu	350		Educational Psychology 3		3
				24	17

			Hours	
		Sixth Semester	Clock	Semester
HEd	311	Preparation for Teaching Secondary Physical Education	3	1
HEd	352	Methods and Materials of Health Education	3	2
HEd	364	Organization and Administration of Physical Education	3	2
His	212	History of U. S. and Penna. II	3	3
HEd	322	Organization and Administration of Intramural and Interscholastic Athletics	2	1
HEd	324 (Men)	Baseball, Golf, Tennis, Gymnastics, Wrestling	3	1
	(Women)	Badminton, Golf and Archery		
Mus	220	Fine Arts	3	3
HEd	253	School Health Problems	3	2
			23	15
		Seventh Semester		
HEd	455	Applied Physiology	2	2
HEd	463	Principles of Coaching	2	2
HEd	462	Principles of Recreation	2	2
HEd	461	Physical Activities for the Atypical Child II	3	2
PSc	231	American Government	3	3
Phi	480	Introduction to Philosophy	3	3
		Elective	2	1
			17	15
		Eighth Semester		
HEd	471	Student Teaching and Direction of Student Activities	30	12
HEd	472	Professional Practicum including School Law	2	2
			32	14
		Total credit hours recommended for graduation		129

2. RECREATION LEADERSHIP

For students who desire to prepare as recreation leaders, elective courses are provided.

Courses offered in addition to those required in the major field (aquatics, athletics, dance, theory) are:

HEd	366	Organization and Administration of Recreation	3	3
HEd	367	Arts and Crafts in Recreation	3	3

		Hours Clock	Semester
HEd 368	Music in Recreation	3	3
HEd 369	Dramatics in Recreation	3	3
HEd 370	Camping and Outing	3	3
HEd 464	Supervised Recreation Leadership (Field Experience in Recreation)	6	3

3. A PROGRAM OF INDEPENDENT STUDY AND SUPERVISED FIELD EXPERIENCE IN CAMPING

The Department of Health and Physical Education offers a special program in camp leadership for staff members at children's summer camps. The program is designed to aid the student's professional growth and knowledge through directed leadership experience with children in the informal atmosphere of the camp.

Undergraduate Students

HEd 464 Supervised Recreation Leadership — 3 credits
(6 to 8 weeks' attendance at camp July through August)

ELIGIBILITY

Any matriculated student at West Chester State College is eligible to participate in the program. Permission of the special adviser should be obtained if credit is to be applied toward a degree. Students from other colleges may register with the permission of the course instructor. It is suggested that students enrolled at other colleges obtain the approval of their special adviser or appropriate administrative officer to assure that these courses may be applied toward degree requirements.

4. EDUCATION FOR SAFE LIVING (HIGHWAY SAFETY AND GENERAL SAFETY EDUCATION)

The standards for certification as approved by the State Council of Education, January 9, 1948, require twelve semester hours *for the extension of a teacher's certificate to include this field.*

The following courses are offered by the College to satisfy the course requirement in this field:

HEd 481	Introduction to Safety Education	3	3
HEd 482	Driver Education and Training	3	3
HEd 483	Psychology of Accident Prevention	3	3
HEd 484	Methods and Materials in Safety Education	3	3
HEd 485	Organization and Administration in Safety Education	3	3

D. The Music Education Curriculum

Upon satisfactory completion of requirements of this curriculum, the student will be granted the degree of Bachelor of Science in Music Education by the College and will qualify for a Pennsylvania Provisional College Certificate to be issued by the Department of Public Instruction, Harrisburg, Pa. The certificate will be valid for teaching music in the elementary and secondary schools of Pennsylvania for three years.

(*Sequence of courses subject to change for administrative reasons*)

		First Semester	Hours Clock	Hours Semester
Eng	101	English I	3	3
Eng	103	Speech	2	2
Sci	100	Basic Biology	3	3
Mus	100	Foundations of Music	3	3
HEd	150	Health	2	2
Mus	021	Violin I (Class)	2	1
Mus	061	Chorus	2	⅓
		Piano (private lesson)	½	1
		Voice (private lesson)	½	1
			18	16⅓
		Second Semester		
Eng	102	English II Comp.	3	3
Edu	100	Social Foundations of Education	3	3
Mus	110	Theory of Music	3	3
Mus	211	Sight Singing	3	3
HEd	101	Coeducational Physical Activities I	2	1
Mus	022	Violin II (Class)	2	1
Mus	071 or			
Mus	081	Orchestra (Elem.) or Band (Elem.)	2	⅓
Mus	062	Chorus	2	⅓
		Piano	½	1
		Voice	½	1
			21	16⅔
		Third Semester		
Lit	221	General Literature I	3	3
His	101	History of Civilization I	3	3
Mus	201	Theory of Music	3	3
Mus	212	Sight Singing	2	2
Psy	250	General Psychology	3	3
Mus	031	Clarinet (Class)	1	½
HEd	107	Physical Education (Eurythmics)	2	1
Mus	072 or			
Mus	082	Orchestra (Elem.) or Band (Elem.)	2	⅓

			Hours Clock	Semester
Mus	063	Chorus	2	⅓
		Piano	½	1
		Voice	½	1
			22	18 1/6

Fourth Semester

Lit	222	General Literature II	3	3
His	102	History of Civilization II	3	3
Mus	331	Choral Conducting	2	2
Mus	202	Theory of Music	3	3
HEd	207	Physical Education (Eurythmics)	2	1
Mus	032	Clarinet (Class)	1	½
Mus	071 or			
Mus	081	Orchestra (Elem.) or Band (Elem.)	2	⅓
Mus	064	Chorus	2	⅓
		Piano	½	1
		Voice	½	1
			19	15 1/6

Fifth Semester

Art	101	Fine Arts (Art)	3	3
Mus	311	Secondary School Methods	3	2
Mus	312	Instrumental Methods	3	2
Mus	351	Elementary Methods (Human Development)	3	3
Mus	301	Theory of Music	3	2
Mus	041	Trumpet (Class)	1	½
Mus	072 or			
Mus	082	Orchestra (Elem.) or Band (Elem.)	2	⅓
Mus	161	Choir	2	½
		Piano	½	1
		Voice	½	1
			21	15 1/3

Sixth Semester

Mus	332	Instrumental Conducting	2	2
His	212	History of U. S. and Pennsylvania II	3	3
Edu	350	Educational Psychology	3	3
Mus	220	Fine Arts (Music)	3	3
Mus	042	Trumpet (Class)	1	½
Mus	162	Choir	2	½
		Elective	2	2
		Piano	½	1
		Voice	½	1
			17	16

			Hours Clock	Semester
		Seventh Semester		
PSc	231	American Government	3	3
Phi	480	Introduction to Philosophy	3	3
Mus	233	Acoustics—Physical Science	3	3
Mus	310	History of Music II	3	3
Mus	051	Percussion	1	½
		Major Musical Organization	2	½
		Piano, Voice, or Instrument	½	1
		Elective	2	2
			17½	16
		Eighth Semester		
Mus	421	Student Teaching, Direction of Student Activities, and Professional Practicum	32	12
		Major Musical Organization	2	½
		Elective (Applied Music)	½	1
		Piano, Voice or Instrument	½	1
			35	14½
Total Semester Hours Required for Graduation				128

ELECTIVES —

Mus	320	American Music	2	2
Mus	321	Counterpoint	2	2
Mus	322	Orchestration	2	2
Mus	323	Composition	2	2
Mus	324	Choral Materials and Practices	2	2
Mus	325	Piano Methods (Class)	2	2
Mus	326	Instrumental Techniques and Materials	2	2
Mus	327	Teaching Music Appreciation in Elementary Grades (Summer only)	3	3
Mus	328	Aesthetics and Music Criticism	2	2
Mus	402	Seminar in Piano Teaching and Teaching Materials (Summer only)	3	3
Mus	410	Literature of the Musical Theater	3	3
Mus	412	Musico-Dramatic Production	2-3	2-3

E. Special Curricula

West Chester State College offers three Special Curricula that cannot be classified as Degree Programs although the Bachelor of Science Degree is awarded upon the completion of the requirements. Each program has its unique standards. The programs for Dental Hygienists, Public School Nurses, and Special Educationists are presented below.

1. DEGREE CURRICULUM FOR DENTAL HYGIENISTS

The degree of Bachelor of Science in Education will be conferred upon Dental Hygienists meeting the following requirements:

1. The possession of a valid license to practice dental hygiene in the Commonwealth of Pennsylvania issued by the State Dental Council and Examining Board and the Department of Public Instruction.

   The professional education requirement for dental hygiene is the satisfactory completion of an approved dental hygienist course of instruction of two years of not less than thirty-two weeks of not less than thirty hours each week or its equivalent in and graduation from a dental hygiene school approved by the State Council and Examining Board.

2. The satisfactory completion in addition thereto of 60 semester hours of professional and general education courses distributed as follows:

			Semester Hours
A. EDUCATION			11
Edu	100	Social Foundations of Education 3	
Psy	250	General Psychology 3	
Edu	300	Audio-Visual Education 2	
Edu	350	Educational Psychology 3	
B. GENERAL EDUCATION			44
English			
Eng	101, 102	English I and II 6	
Eng	103	Speech 2	
Lit	221	Literature I 3	
Lit	222	Literature II 3	
Fine Arts			
Art	101	Fine Arts 3	
Mus	220	Fine Arts 3	
Geography			
Geo	101	World Geography 3	
Geo	202	Geography of the United States and Canada 3	

			Semester Hours
Social Science			
His	101	History of Civilization I 3	
His	102	History of Civilization II 3	
PSc	231	American Government 3	
Eco	231	Economics 3	
His	211	History of the United States and Pennsylvania I 3	
Soc	231	Sociology 3	
C. ELECTIVES			9
		Total	64

Electives may be chosen with the approval of the Dean of Instruction from any academic field or curriculum offered at the College.

In each category above, credit will be given for equivalent courses pursued in the two year Dental Hygiene Curriculum. In such cases students must increase their electives by the number of semester hours so credited.

In the case of dental hygienists who had less than two years of specialized training on the basis of which they were licensed to practice dental hygiene, proportional credit will be given. Such persons must pursue additional general education courses in college to make up the deficiency.

2. DEGREE CURRICULUM FOR PUBLIC SCHOOL NURSES

The degree of Bachelor of Science in Education will be conferred upon registered nurses who meet the following requirements.

The satisfactory completion of a two-year Associate Degree program or a three-year Diploma program in an approved school of nursing and registration by the State Board of Examiners for the Registration of Nurses of Pennsylvania and sixty semester hours of credit distributed as follows:

A. Courses Related to Public Nursing

PSN	300	Public School Nursing 2	
PSN	302	Public Health Nursing I 3	
PSN	303	Public Health Nursing II 3	
PSN	304	Foundation of Nutrition 3	
PSN	306	Prevention and Control of Communicable Diseases .. 3	
		Sub Total	14

B. General Education

			Semester Hours	
Eng	102	English Composition	3	
Eng	103	Speech	2	
Lit	221	General Literature I		
or		or		
Lit	222	General Literature II	3	
His	101			
or	102	History of Civilization	3	
His	211	History of U. S. and Pennsylvania I	3	
PSc	231	American Government	3	
Soc	231	Principles of Sociology	3	
Sci	100	Biological Science	3	
Psy	250	General Psychology	3	
Psy	370	Mental Hygiene	3	
		Sub Total		29

C. Professional Education

Edu	100	Social Foundations of Education	3	
Edu	350	Educational Psychology	3	
Psy	351	Child Development or		
or	352	Adolescent Psychology	3	
Edu	306	Introduction to Counseling and Guidance	3	
		Sub Total		12

D. Electives (Suggested)

Phi	480	Philosophy	3	
Mus	220	Fine Arts—Music Appreciation	3	
Art	101	Fine Arts—Art Appreciation	3	
Mat	101	Introduction to College Mathematics	3	
		Any two courses for a total of not less than 5 credits		5
		Total		60

In the case of nurses with less than three years preparation for registration, such persons will pursue additional courses to meet the requirements for the degree.

Application for Admission

A registered nurse who desires to enroll in the Degree Curriculum for Public School Nurses should write for application blanks and information to the Director of Admissions, West Chester State College. West Chester, Pa.

Resident Requirements

The last 30 semester hours of credits must be earned at West Chester State College, to qualify for graduation. Resident credits may be earned in day, evening, and Saturday classes which are offered on campus or approved by the college administration.

3. PROGRAM OF STUDIES IN SPECIAL EDUCATION

The Special Education program at West Chester State College offers students an opportunity to secure certification to teach classes for the mentally retarded or physically handicapped. The course sequence included in this program is offered as an extension of existing curricula and enables students to graduate with dual certification, i.e. their teaching certificates will be valid for teaching in the regular elementary classroom and in special classes for either the mentally retarded or the physically handicapped.

The program at West Chester totals eleven semester hours and is planned so that regular elementary students will not find it necessary to carry an overload or attend summer session. Courses in Special Education will be offered as part of the regular summer program, but in most cases, certification should be possible without summer study. Students working toward a degree in secondary education will receive dual certification upon completion of the Special Education courses and basic courses in the teaching of reading and in the teaching of arithmetic. Attendance at summer school may be necessary to acquire these additional credits.

The program of study in each area is as follows:

Courses are listed in the order in which they are to be taken.

	Hours	
MENTALLY RETARDED	Clock	Semester
Psy 341 Psychology of Exceptional Children	3	3
Psy 343 Psychology of the Mentally Retarded	3	3
SpE 344 Problems in Special Education	2	2
Curriculum and Methods for Mentally Retarded	3	3
	11	11
PHYSICALLY HANDICAPPED		
Psy 341 Psychology of Exceptional Children	3	3
HEd 390 Orthopedic Disabilities of Children	2	2
HEd 391 Psychology of Physically Handicapped	3	3
Curriculum and Methods for Physically Handicapped	3	3
	11	11

Student Teaching: In each program not less than four weeks nor more than nine weeks of the regular student teaching is to be allocated to a special education station.

Special Education courses are scheduled to enable students to begin the program during the second semester of their sophomore year. General Psychology is a prerequisite for all Special Education courses. Students interested in teaching retarded or physically handicapped children should indicate their interest when planning their sophomore schedule. They should also confer with the Director of Special Education.

Those students who are uncertain of their interest in the field may enroll in one or more of the Special Education courses on an exploratory basis. The courses will then serve as elective credit in the various curricula, and in addition, will provide the student with an opportunity to decide the degree of his personal commitment to the field of teaching retarded or physically handicapped children.

All interested students should see the Director of Special Education, Special Education Building, West Chester State College, 19380, for further details.

II LIBERAL ARTS AND SCIENCES CURRICULA

In May, 1962, the State Council of Education approved West Chester's application to offer Liberal Arts Curricula in Humanities, Social Sciences, Natural Sciences, and Mathematics.

All students enrolled in the Liberal Arts and Sciences Program are required to complete 128 semester hours of credit. A general studies area of approximately half these credit hours is common to all the fields of major specialization. In general these courses are concentrated in the earlier semesters.

General study courses are distributed among English composition and speech, a foreign language on the intermediate level, philosophy, literature, art, music, history, geography, psychology, mathematics, anthropology, sociology, economics, political science, and choices among the natural sciences.

To supplement the general academic studies, students are also required to take four hours' credit in health and physical education.

The Liberal Arts and Sciences Program at West Chester is designed for high school graduates interested in a comprehensive four-year college education. The Program has two purposes: (1) to equip students with the broad culture necessary for effective life in contemporary society; (2) to provide varied educational experiences by which students may develop individual interests and abilities.

Basic curriculum sequences in Humanities, Social Sciences (including Geography), Natural Sciences, and Mathematics aim to provide students with some idea of man's intellectual and creative progress, appreciation of his social environment, and understanding of scientific principles and their methods of investigation. The Liberal Arts and Sciences Program is in essence the consideration of the record of the inquiring mind.

The first years of the Program are in part devoted to a core of general studies. This gives students occasion to explore numerous areas of learning before they select a final field of concentration. The arrangement will in part aid many high school graduates who are undecided as to choice of careers and who need opportunity for such exploration.

The Program will also satisfy those with more definite career objectives. Any of the curricula are appropriate for those entering commerce and industry. The Program is sufficiently flexible to provide the preparation required for graduate study in the professions of law, medicine, the church, college teaching, and others.

GENERAL REQUIREMENTS

Course Area			Semester Hours
I. General Education Requirements			61
A. Basic Core: Skills and Competencies		14	
1. English		8	
a. Composition	6		
b. Speech	2		
2. Foreign Language (intermediate level)		6	
B. Humanities		15	
1. Literature		6	
2. Fine Arts		6	
a. Art	3		
b. Music	3		
3. Philosophy		3	
C. Social Sciences		18	
1. History of Civilization		6	
2. Two electives from: Ant 231, Cultural Anthropology; Soc 231, Introduction to Sociology; Eco 231, Introduction to Economics; PSc 231, American Government*		6	
3. Geography		3	
4. Psychology		3	
D. Natural Sciences		14	
1. Biological or Physical Science (year course)		8	
2. Mathematics**		6	
II. Health and Physical Education Requirement			4
Total			65

*Social Science area consult advisor for choice of courses.

**Students in Humanities or Social Science may substitute Logic for one mathematics course.

MAJOR CURRICULUM AREAS

After completion of the general requirements, the student elects one of five fields of concentration as outlined on the following pages.

A. HUMANITIES

Philosophy and Objectives

The Department of Humanities holds that education is basically an intellectual process which must be approached scientifically and that all education must be related to man as a member of society.

The college believes that the Humanities are designed to further the development of man's relations to his social environment in the community, the nation, and the world. The humanities aid man in adapting himself to his social relationships and, to a considerable degree, in constructively and rationally seeking to adapt his social relationship to his life.

Specifically, the Program in Humanities is designed to expose the student to the arts, not as a mere relief of tedium in hours of leisure, but as a positive explanation of man's inheritance from the past and of his obligation to the present and the future.

The department believes with John Milton that the Humanities are designed to fit the individual "to perform justly, skillfully, and magnanimously all the duties, public and private, of peace and war." This will apply to business, the professions, and graduate work.

The humanities sequence is based upon a required core of courses concerned with: philosophy or great books, history and literature of the drama and theater, music history and literature, and art history.

In addition, five elective areas of concentration are available as follows:

1. Literature (English, American, or general).
2. Theater Arts (art, music, drama, dance, and dramatic production).
3. Fine Arts (history and appreciation of the arts, studio art, music theory, and applied music).
4. Language—Linguistics (elected foreign language, and courses in language history, usage, and techniques).
5. Philosophy (history of philosophy; logic, ethics, aesthetics; contemporary applications to history, religion, and science).

Curriculum In Humanities

Course Area	Semester Hours
I. General Requirements	65
II. Required Humanities Core Beyond General Requirements	30-33
A. Philosophy or Great Books	6
B. History and Literature of Drama and Theater	6
C. Music History and Literature	6
D. Art History	6
E. Electives (two- or three-way combination)	6-9
1. Aesthetics	3
2. Literature	3
3. Music (including applied music)	3
4. Art (including studio art)	3

(Note: A through D are year courses)

III. Elective Areas of Concentration as Advised 21-24

A. *Literature:* Closely related elective courses centered on a choice of English, American, or general literature.

B. *Theater Arts:* Departmental and interdepartmental courses bringing together art, music, drama, and the dance as related to theatrical performance and dramatic and musico-dramatic production.

C. *Fine Arts:* Departmental and interdepartmental courses devoted to the history and appreciation of the fine arts plus courses in studio art. music theory, and applied music.

D. *Language-Linguistics:* Twelve hours of language, six at intermediate level, plus courses in language history, usage, and techniques.

E. *Philosophy:* Both ancient-medieval and modern history of philosophy, and senior seminar, plus other courses as advised.

IV. Free Electives as Advised 9-12

A. Second language or second year of language strongly recommended.

B. Special interdepartmental courses devoted to literary and artistic contributions of great cultural epochs plus courses in criticism, history, psychology, and comparative philosophy, religion and ethics.

Total 128

A. LITERATURE

Lit 223 American Literature I
Lit 224 American Literature II
Lit 225 English Literature I
Lit 226 English Literature II
Lit 330 Medieval Literature in England
Lit 331 Chaucer
Lit 339 Tudor-Stuart Literature
Lit 335 Eighteenth Century Literature
Lit 336 Romantic Movement
Lit 337 Victorian Literature
Lit 341 Novel to 1870
Lit 342 Contemporary Novel
Lit 343 Contemporary Poetry
Lit 346 Essay
Lit 348 Short Story
Lit 349 Bible as Literature
Lit 329 Classical Mythology
Lit 321 Great Books I
Lit 322 Great Books II
Eng 211 Journalism
Eng 312 Advanced Writing
Eng 317 Old English Language and Literature
Eng 318 Middle English Language and Literature
Eng 345 Criticism

B. THEATER ARTS

1. Literature
   - Lit 332 English Drama to Renaissance
   - Lit 333 Shakespeare I
   - Lit 334 Shakespeare II
   - Lit 351 Modern Drama I
   - Lit 352 Modern Drama II
   - ThA 301 History Drama-Theater I
   - ThA 302 History Drama-Theater II
2. Dramatics
   - ThA 101 Theater Workshop
   - ThA 102 Oral Interpretation
   - ThA 103 Principles of Acting
   - ThA 104 Principles of Stagecraft and Lighting
   - ThA 105 Creative Theater for the Elementary School
   - ThA 201 Principles of Costuming and Make-up
   - ThA 202 Principles of Designing for Stage
   - ThA 203 Principles of Play Production and Directing
   - ThA 204 Television I*
   - ThA 205 Television II*
   - ThA 206 Theater Production for Schools
3. Dance
   - HEd 242 Social, Square, and Advanced Folk Dancing
   - HEd 341 Modern Dance I
   - HEd 342 Modern Dance II
   - HEd 343 Principles of Choreography
   - HEd 344 Dance in Theater Arts
4. Music
   - Mus 410 Literature Musical Theater
   - Mus 412 Musico-Dramatic Production
5. Criticism
   - Eng 345 Criticism
   - Mus 328 Aesthetics and Music Criticism
   - Art 401 Aesthetics

*Requires prior consultation with the instructor.

C. FINE ARTS

1. Art

   Art 201 Arts and Crafts
   Art 301 Painting I
   Art 302 Painting II
   Art 303 Sculpture I
   Art 304 Sculpture II
   Art 305 Drawing and Print Making
   Art 401 Aesthetics
   Art 405 History of Western Art I (Prehistoric to Renaissance)
   Art 406 History of Western Art II (Renaissance to Present)
   Art 407 History of Non-Western Art
   Art 408 Arts of the United States

2. Music

   Mus 110 Theory of Music
   Mus 201 Theory of Music
   Mus 202 Theory of Music
   Mus 301 Theory of Music
   Mus 320 American Music
   Applied Music: Voice, Instrument, Ensemble

3. Aesthetics and Criticism (See B, 5)

D. LANGUAGE — LINGUISTICS

1. Languages

   a. French

   Fre 101 Elementary French I
   Fre 102 Elementary French II
   Fre 103 Intermediate French I
   Fre 104 Intermediate French II
   Fre 201 Survey of Literature I
   Fre 202 Survey of Literature II
   Fre 203 Advanced Grammar and Composition
   Fre 304 French Civilization
   Fre 401 French Literature of the 18th Century
   Fre 402 French Literature of the 19th Century
   Fre 403 Contemporary French Literature
   Fre 404 French Classical Drama

b. German

Ger 101 Elementary German I
Ger 102 Elementary German II
Ger 103 Intermediate German I
Ger 104 Intermediate German II
Ger 201 Survey of Literature I
Ger 202 Survey of Literature II
Ger 203 Advanced Grammar and Composition
Ger 401 Age of Goethe
Ger 402 Contemporary German Literature
Ger 403 German Short Story
Ger 404 Goethe
Ger 405 Scientific German
Ger 406 German Civilization

c. Greek

Gre 101 Elementary Greek I
Gre 102 Elementary Greek II
Gre 103 Intermediate Greek I
Gre 104 Intermediate Greek II

d. Italian

Ita 101 Elementary Italian I
Ita 102 Elementary Italian II
Ita 103 Intermediate Italian I
Ita 104 Intermediate Italian II

e. Latin

Lat 101 Elementary Latin I
Lat 102 Elementary Latin II
Lat 201 Cicero
Lat 202 Virgil
Lat 203 Roman Historians
Lat 302 Lyric Poets
Lat 303 Latin Prose Composition
Lat 304 Elegiac Poets
Lat 401 Roman Drama
Lat 402 Roman Philosophy
Lat 403 Roman Satire
Lat 404 Latin Novel
Lat 405 Tutorial Course

f. Russian

Rus 101 Elementary Russian I
Rus 102 Elementary Russian II
Rus 103 Intermediate Russian I
Rus 104 Intermediate Russian II
Rus 201 Advanced Readings in Russian Literature I
Rus 202 Advanced Readings in Russian Literature II
Rus 203 Advanced Grammar and Composition
Rus 303 Scientific Russian I
Rus 304 Scientific Russian II
Rus 401 Russian Novel
Rus 402 Russian Drama

g. Spanish

Spa 101 Elementary Spanish I
Spa 102 Elementary Spanish II
Spa 103 Intermediate Spanish I
Spa 104 Intermediate Spanish II
Spa 201 Survey of Literature (Golden Age)
Spa 202 Survey of Literature (Since 1800)
Spa 203 Advanced Grammar and Composition
Spa 304 Spanish Civilization
Spa 401 Spanish-American Literature
Spa 402 Contemporary Spanish Literature
Spa 403 Spanish "Comedia"
Spa 404 Picaresque Novel

2. Linguistics

Eng 314 History of Language
Eng 315 Advanced Grammar
Fre 302 General Linguistics
Ger 302 General Linguistics
Rus 302 General Linguistics
Spa 302 General Linguistics

E. PHILOSOPHY

Phi 372 Survey of Oriental Religions
Phi 374 Problems of Aesthetics
Phi 380 Ethics
Phi 480 Introduction to Philosophy
Phi 481 History of Philosophy, Ancient and Medieval
Phi 482 History of Philosophy, Modern
Phi 483 Philosophy of History
Phi 484 American Philosophy
Phi 485 Contemporary Philosophy
Phi 486 Philosophy of Religion
Phi 490 Logic
Phi 491 Advanced Logic
Phi 498 Seminar in Ancient Philosophy
Phi 499 Seminar in Modern Philosophy

Normal sequence of courses

1					5			
	Eng	101	3			Psy	250	3
	Lit	221	3			SSE		3
	Lan		3			Spe		
	Mat	101	3			FEl		
	Spe		3					
	HEd	108	1	16				
2					6			
	Eng	102	3			Phi	480	3
	Lit	222	3			SSE		3
	Lan		3			Spe		
	Mat/Log		3			FEl		
	Spe		3					
	HEd	218	1	16				
3					7			
	His	101	3			Geo	101	3
	Art	101	3			Spe		
	Spe		6			FEl		
	Sci		4					
	HEd	150	2	18				
4					8			
	His	102	3			Spe		
	Mus	220	3			FEl		
	Eng	103	2					
	Spe		6					
	Sci		4	18				

B. SOCIAL SCIENCES

Philosophy and Objectives

The Department of Social Sciences believes that the primary purpose of education is intellectual and that the scientific method can be applied to the study of human relations and institutions. Politics, economics, sociology, anthropology, geography and history come within the scope of the social sciences at West Chester, for each of these is concerned with the study of human institutions, customs and behavior.

At West Chester the social sciences are geared to the development of national pride and to the appreciation of the social order in which the students live. Equally important as a tenet of ideals

is the belief that the social sciences should also develop an appreciation for the institutions and mores of other lands in the interest of furthering world understanding.

More specifically, the program leading to the degree of Bachelor of Arts with a concentration in the social sciences is designed, beyond the basic two years of prescribed general studies, to provide the student with a broad coverage of the fields of history, political science, economics, sociology, anthropology, and geography. In addition, the program also provides for further specialized concentration in particular social sciences. Careers in government, journalism, law, the civil service, and many other fields may develop following participation in this program.

The social science sequence is based on a core of required and elective courses in history (including a one-year course in U.S. history), political science (including American government), economics, geography, principles of sociology and cultural anthropology, and a senior seminar.

Except for senior seminar, each of the above named subject-matter subdivisions is also considered as an elective area for additional concentration. Therefore, in the belief that a broad study of the social sciences should be balanced by some specialized study in depth, all students select a sequence in one of the social science subdivisions listed above and develop a 30-36 hour major area of specialization.

Curriculum In Social Sciences

Course Area	Semester Hours
I. General Requirements	65
II. Required Social Science Core Beyond General Requirements	36
A. History	12
1. History of U.S. I, II	6
2. Electives*	6
B. Economics	6
1. Principles of Economics	3
2. Elective*	3
C. Political Science	6
1. American Government	3
2. Elective*	3

*Check with advisor for choice of courses for area of concentration.

D. Anthropology and Sociology 6
1. Cultural Anthropology 3
2. Principles of Sociology 3
E. Geography 3
F. Senior Seminar 3

III. Elective Areas of Concentration as advised 15
Each student must select an additional 15 hours of electives in one of the following: history, political science, economics, sociology, anthropology, geography.

IV. Free Electives as advised 12

Total 128

SOCIAL SCIENCES A

The social sciences A sequence is designed for students interested in entering social service or personnel work. Although basically the social science sequence is followed, there is variation to permit greater concentration in psychology, sociology, and economics under Elective Areas of Concentration.

Curriculum In Social Sciences A

Course Area	Semester Hours
I. General Requirements	65
II. Required Social Science Core Beyond General Requirements	24
A. History of U.S. I, II	6
B. Political Science (American Government)	3
C. Economics	6
1. Principles of Economics	3
2. Elective	3
D. Sociology and Anthropology	6
1. Principles of Sociology	3
2. Cultural Anthropology	3
E. Senior Seminar	3
III. Elective Areas of Concentration as advised	30
Each student will choose electives approximating: 12 hours of psychology, 12 hours of sociology, and 6 hours of economics.	
IV. Free Electives	9
Total	128

OFFERINGS FOR CONCENTRATION AREAS IN THE SOCIAL SCIENCES

A. HISTORY

1. American History
   - His 211 History of U.S. I
   - His 212 History of U.S. II
   - His 313 History of Pennsylvania
   - His 314 Diplomatic History of the U.S.
   - His 315 Economic History of the U.S.
   - His 316 History of American Frontier
   - His 317 History of American Science and Technology
   - His 318 Constitutional History of U.S.
   - His 319 Social and Intellectual History of the United States
   - His 320 History of the South

2. European History
   - His 219 Medieval Europe
   - His 220 Renaissance and Reformation
   - His 221 Modern Europe to 1815
   - His 222 Modern Europe Since 1815
   - His 321 History of England
   - His 326 History of Russia

3. Regional History
   - His 218 Ancient World
   - His 322 History of South Asia
   - His 323 History of the Middle East
   - His 324 History of Latin America
   - His 325 History of 20th Century World
   - His 327 The British Empire and Commonwealth
   - His 328 History of Modern Africa
   - His 329 History of East Asia

B. ECONOMICS
   - Eco 231 Principles of Economics
   - Eco 332 Contemporary Economic Problems
   - Eco 333 Consumer Economics
   - Eco 334 Industrial Relations
   - Eco 335 Money and Banking
   - Eco 336 Business and Government
   - Eco 337 Economic Growth and Development
   - Eco 338 International Economics

C. POLITICAL SCIENCE

PSc 231 American Government
PSc 331 State and Local Government
PSc 332 Comparative Government
PSc 333 International Relations
PSc 334 American Political Parties
PSc 335 American Political Ideas
PSc 336 Soviet Government and Politics
PSc 337 American Foreign Policy
PSc 338 Introduction to Political Thought
PSc 339 Elements of Public Administration
PSc 340 American Constitutional Law

D. ANTHROPOLOGY AND SOCIOLOGY

Ant 231 Introduction to Cultural Anthropology
Ant 331 Human Evolution
Ant 332 Social Organization
Ant 333 Cultural Dynamics
Ant 334 World Ethnography
Soc 231 Introduction to Sociology
Soc 332 Contemporary Social Problems
Soc 333 The Family
Soc 334 Juvenile Delinquency
Soc 335 Racial and Cultural Minorities
Soc 336 Urban Sociology
Soc 337 Sociological Theory
Soc 338 Criminology
Soc 339 Social Stratification
Soc 400 Methods in Social Research Seminar

E. SEMINARS AND INDEPENDENT STUDIES

SSc 400 Senior Seminar
SSc 410 Independent Studies

F. PSYCHOLOGY

Psy 250 General Psychology
Psy 341 Psychology of Exceptional Children
Psy 343 Psychology of the Mentally Retarded
Psy 351 Human Development (Childhood)
Psy 352 Human Development (Adolescence)
Psy 353 Child Adjustment
Psy 354 Social Psychology
Psy 355 Experimental Psychology
Psy 356 The Study of Personality
Psy 370 Mental Hygiene
Psy 450 Abnormal Psychology

LIBERAL ARTS AND SCIENCES

SOCIAL SCIENCE AREA

Normal sequence of courses

1					5			
	Eng	101	3			Psy	250	3
	His	101	3			SSE		3
	Lan		3			Spe		
	Mat	101	3			FEl		
	Spe		3					
	HEd	108	1	16				
2					6			
	Eng	102	3			Phi	480	3
	His	102	3			SSE		3
	Lan		3			Spe		3
	Mat/Log		3			FEl		
	Spe		3					
	HEd	218	1	16				
3					7			
	Lit	221	3			Geo	101	3
	Art	101	3			Spe		
	Spe		6			FEl		
	Sci		4					
	HEd	150	2	18				
4					8			
	Lit	222	3			Spe		
	Mus	220	3			FEl		
	Eng	103	2					
	Spe		6					
	Sci		4	18				

PLANNED PROGRAM IN SOCIAL WORK

The Pennsylvania Department of Public Welfare supports a program of professional education providing financial assistance for full time study in clinical psychology, nursing education, occupational therapy, physical therapy, psychiatric nursing, and social work at the graduate level.

Eligibility:

Employees of the Department of Public Welfare, including its institutions and county boards of assistance; county child welfare agencies.

College graduates and Registered Nurses interested in a professional career in public welfare.

Requirements:

Acceptance by an accredited professional school within 350 miles of Harrisburg.

Persons not employed by the department may be required to take a civil service examination. Early inquiry is urged for notification of examination dates in the winter and early spring.

Agreement to accept one year of employment in the Department of Public Welfare for each year of professional education.

Financial Provisions and Future Employment:

1. Payment of tuition by the Department of Public Welfare.
2. Payment of salary as follows:
   A. Appointees with 12 months or more of employment, as outlined under *Eligibility*, will receive current salary reduced by two increment steps.
   B. Appointees with no employment, as outlined under *Eligibility*, will receive $118 biweekly before deductions for withholding tax, social security and state employees retirement.
3. Regular employment in a position for which the graduate qualifies. Appointments will be made in accordance with needs and appropriate regulations and may be in Department headquarters, departmental institutions (mental health or correctional), county boards of assistance or county child welfare agencies.

How to Apply:

Application forms and information about this Professional Education Program and Civil Service examinations may be obtained from the Bureau of Personnel, Department of Public Welfare, Harrisburg, Pennsylvania, any state mental institution or youth development center, county board of assistance or county child welfare agency.

May 1 of each year is the last date of application.

Preparations:

To enter a School of Social Work no particular sequence of courses is required so long as the applicant has a Bachelor's degree from an accredited institution. Courses in the Social Sciences, particularly Sociology and Psychology, are most desirable. Students interested in preparing for a career in Social Work should contact the chairman of the Department of Social Sciences or the Dean of Liberal Arts and Sciences.

C. SOCIAL SCIENCE — GEOGRAPHY

Philosophy and Objectives

The Geography sequence is based on a core of required and elective courses in the earth sciences, economic, regional, cultural-political geography, social science course and a senior seminar in Geography. The sequence is designed to give a student breadth over the field of Geography.

Additional concentration in any of the above areas of Geography or in related fields is possible within this sequence. The sequence of courses may be altered at the discretion of the department chairman. The sequence is designed to train geographers for work in government, in industry, and agencies, both private and governmental, that are concerned with planning.

Curriculum In Geography

Course Area	Semester Hours
I. General Requirements	65
II. Required Geography Core Beyond General Requirements	30
A. Earth Science	6
1. Geomorphology (Geo 205)	3
2. Introduction to Climate (Geo 206) or Climatology (Geo 302)	3
B. Economic Studies	6
1. Economic Geography (Geo 203)	3
2. Elective	3
C. Regional Studies	6
1. Geography of the U.S. and Canada (Geo 202)	3
2. Elective	3
D. Cultural and Political Studies	6
1. World Problems (Geo 309)	3
2. Elective	3
E. Social Science	3
F. Geography Seminar (Geo 316)	3
III. Elective Areas in Related Subjects as advised	21
Each student must select an additional 21 hours of electives from the following: geography, (special studies like cartography, map interpretation, field studies, etc.) geology, biology, history, political science, sociology, economics, anthropology, statistics, mathematics.	
IV. Free Electives as advised	12
Total	128

OFFERINGS FOR SELECTION OF ELECTIVES IN GEOGRAPHY

Economic Studies

Geo 203 Economic Geography
Geo 201 Conservation of Natural Resources
Geo 314 Urban and Regional Planning
Geo 308 Trade and Transportation

Regional Studies

Geo 202 Geography of U.S. and Canada
Geo 307 Geography of the Soviet Union
Geo 207 Geography of Europe
Geo 304 Geography of Asia
Geo 208 Geography of Latin America
Geo 305 Geography of the Far East
Geo 306 Geography of Africa
Geo 312 Geography of Australia and Associated Islands
Geo 204 Geography of Pennsylvania

Cultural and Political Studies

Geo 309 World Problems in Geography
Geo 210 Geographic Influences in American History
Geo 313 Geography of Population
Geo 209 The U.S. in Its Global Relations

Special Studies

Geo 211 Map Appreciation and Interpretation
Geo 303 Cartography
Geo 310 Geography Field Study Methods
Geo 315 Geography Area Field Study Courses I, II and III

Earth Sciences

Geo 205 Geomorphology
Geo 206 Introduction to Climate
Geo 301 Introduction to Geology
Geo 302 Climatology

Seminar

Geo 316 Geography Seminar

LIBERAL ARTS AND SCIENCES:
SOCIAL SCIENCE — GEOGRAPHY AREA

Normal Sequence of Courses

1					5			
	Eng	101	3			Psy	250	3
	His	101	3			SSE		3
	Lan		3			Spe		
	Mat	101	3			FEl		
	Geo	101	3					
	HEd	108	1	16				
2					6			
	Eng	102	3			Phi	480	3
	His	102	3			SSE		3
	Lan		3			Spe		3
	Mat/Log		3			FEl		
	Spe		3					
	HEd	218	1	16				
3					7			
	Lit	221	3			Mus	220	3
	Art	101	3			Spe		
	Spe		6			FEl		
	Sci		4					
	HEd	150	2	18				
4					8			
	Lit	222	3			Spe		
	Eng	103	2			FEl		
	Spe		9					
	Sci		4	18				

D. NATURAL SCIENCES

Philosophy and Objectives

The Natural Sciences at West Chester include two broad areas of study: the biological sciences (botany and zoology), and the physical sciences (chemistry and physics).

The Natural Science courses in the general education program are intended to provide an understanding of the fundamental principles in each area and to develop an appreciation of the role of the various natural sciences in the progress of civilization. In addition these courses aim to develop the ability to use scientific methods including abstract, logical reasoning.

The program leading to the degree Bachelor of Arts with a concentration in the natural sciences is designed to provide the student with training in breadth and depth in the biological sciences, and the physical sciences. Major students are provided with a broad understanding of the nature and behavior of matter and living forms by the use of experimentation and other research techniques. These approaches are intended to serve both as a tool for the sciences and as an abstract deductive discipline. The program, moreover, is designed to provide further specialized concentration in the sciences which will prepare students for graduate study and careers in research in government and industry.

The natural science sequence is based upon a core program composed of: one-year laboratory courses in a biological science and a physical science, a one-year course in mathematics, and a special one-semester course in earth and space science.

After completing his required core, each student chooses an additional sequence totalling approximately eight courses of work in one of the following three sub-areas of concentration.

1. **BIOLOGY**
2. **CHEMISTRY**
3. **PHYSICS**

Curriculum in Natural Sciences (Biology, Chemistry, Physics)

The program falls into four categories.	Semester Hours
I. General Requirements	65
II. Required Natural Science Core	25
A. Mathematics Mat 142 (Analytic Geometry and Calculus II) Mat 241 (Analytic Geometry and Calculus III) or Mat 303 (Statistics)	6
B. Phy 101-102 (Physics I and II)	8
C. Bio 111-112 (Botany I and II) or Bio 141-142 (Zoology I and II)	8
D. Phy 330 (General Astronomy) or Sci 261 (Physical Geology)	3

Semester Hours

III. Elective area will be either biology, chemistry or physics.

A. Biology ..... (26)

REQUIRED

Bio 111-112 or Bio 141-142 8
(whichever was not taken in Category II)
Bio 301 Genetics 3
Bio 302 Ecology 3
Bio 344 General Physiology 3
Che 321 Organic Chemistry I 4

ELECTIVES

Bio 243 Comparative Anatomy 3
Bio 261 Human Anatomy 4
Bio 262 Human Physiology 4
Bio 341 Entomology 3
Bio 345 Plant Physiology 3
Bio 346 Plant Anatomy 3
Bio 402 Cytology 3
Bio 411 Plant Taxonomy 3
Bio 450 Biology Seminar 1
Bio 452 Special Problems in Biology ..... 1 to 3
Bio 310 Bacteriology 3

B. Chemistry ..... (28)

REQUIRED

Che 321-322 (Organic Chemistry I and II) 8
Che 222 Quantitative Analysis 4
Che 325-326 (Physical Chemistry I and II) 8
Che 421 Instrumental Methods of Analysis 3
Che 431 Industrial Chemical Processes 3

ELECTIVES

Che 422 Advanced Inorganic Chemistry 3
Che 423 Qualitative Organic Analysis 3
Che 441 History and Literature of Chemistry 2
Che 442 Introduction to Chemical Research ... 2 to 6

C. Physics ..... (26)

REQUIRED

Phy 212 Mechanics 4
Phy 233 Introduction to Modern Physics 4
Phy 421 Electricity and Magnetism 4
Phy 423 Electronics 4
Phy 440 Introduction to Research ..... 1 to 3
Phy 444 Seminar 1

ELECTIVES

Phy 413 Analytical Dynamics 3
Phy 414 Heat and Thermodynamics 3

	Semester Hours
Phy 422 Optics	4
Phy 432 Atomic and Nuclear Physics	4
Total of elective area (varying from 26 to 28)	28
IV. Free electives as advised*	10 to 12
Total of free electives (varying from 10 to 12)	10
Total	128

*The mathematics required will be included in the free electives to be taken as advised.

Offerings For Concentration Areas In The NATURAL SCIENCES

A. BIOLOGICAL SCIENCES

Bio 111 Botany I
Bio 112 Botany II
Bio 141 Zoology I
Bio 142 Zoology II
Bio 210 Field Botany
Bio 241 Field Zoology
Bio 242 Ornithology
Bio 243 Comparative Anatomy
Bio 261 Human Anatomy
Bio 262 Human Physiology
Bio 301 Genetics
Bio 302 Ecology
Bio 310 Bacteriology
Bio 341 Entomology
Bio 344 General Physiology
Bio 345 Plant Physiology
Bio 346 Plant Anatomy
Bio 351 Embryology
Bio 355 Wildlife Conservation
Bio 402 Cytology
Bio 411 Plant Taxonomy
Bio 450 Biology Seminar
Bio 452 Special Problems in Biology

B. PHYSICAL SCIENCES

1. Chemistry
   Che 121 General Chemistry I
   Che 122 General Chemistry II and Qualitative Analysis
   Che 222 Quantitative Analysis
   Che 321 Organic Chemistry I
   Che 322 Organic Chemistry II
   Che 325 Physical Chemistry I
   Che 326 Physical Chemistry II
   Che 421 Instrumental Methods of Analysis
   Che 422 Advanced Inorganic Chemistry
   Che 423 Qualitative Organic Analysis
   Che 431 Industrial Chemical Processes
   Che 441 History and Literature of Chemistry
   Che 442 Introduction to Chemical Research

2. Geology
   - Sci 261 Physical Geology
   - Sci 262 Historical Geology
   - Sci 263 Mineralogy and Petrology
   - Sci 264 Geochemistry

3. Physics
   - Phy 101 Physics I
   - Phy 102 Physics II
   - Phy 212 Mechanics
   - Phy 233 Introduction to Modern Physics
   - Phy 413 Analytical Dynamics
   - Phy 414 Heat and Thermo-dynamics
   - Phy 421 Electricity and Magnetism
   - Phy 422 Optics
   - Phy 423 Electronics
   - Phy 432 Atomic and Nuclear Physics
   - Phy 440 Introduction to Research
   - Phy 444 Seminar
   - Phy 330 General Astronomy

4. Mathematics
   See offerings under Mathematics Area

LIBERAL ARTS AND SCIENCES: NATURAL SCIENCES AREA

Normal sequence of courses

1					5			
	Eng	101	3			Psy	250	3
	Sci		4			SSE		3
	Lan		3			Spe		
	Mat		3			FEl		
	Spe		4					
	HEd	108	1	18				
2					6			
	Eng	102	3			Phi	480	3
	Sci		4			SSE		3
	Lan		3			Spe		
	Mat		3					
	Spe		4					
	HEd	218	1	18				
3					7			
	His	101	3			Geo	101	3
	Lit	221	3			Spe		
	Spe		11			FEl		
	HEd	150	2	19				
4					8			
	His	102	3			Spe		
	Lit	222	3			FEl		
	Eng	103	2			Art	101	3
	Mus	220	3					
	Spe		8	19				

E. MATHEMATICS

Philosophy and Objectives

The Mathematics Department at West Chester has adopted dual objectives of promoting rigorous thinking and of fostering technical competence in the subject.

On the one hand pure mathematics is an abstract subject, a model of a deductive science. On the other hand mathematics has many relationships to other fields of thought. The program offered in the Mathematics Department reflects this dual point of view. Mathematics is presented as a systematic, deductive, intellectual discipline with power, beauty, and value when studied for its own sake, and it is presented as a tool subject essential for the understanding of the basic principles of the physical, biological, and social sciences.

The program leading to the degree of Bachelor of Arts with a major in mathematics is designed to provide the student with coverage in breadth and depth in the areas of algebra, analysis, geometry, and applied mathematics. Moreover, the program is designed to prepare the student for graduate study and for a career as a college professor or as an industrial or governmental research mathematician where computer programming, actuarial work, and statistics are among the many interesting areas in which mathematics is used.

The mathematics sequence begins with a core program involving analytic geometry and the calculus. This is followed by a required sequence of major courses covering the areas of analysis, algebra, geometry, and statistics.

Additional concentration in mathematics or related science areas is possible through available electives.

Curriculum in Mathematics

Course Area	Semester Hours
I. General Requirements	65
II. Required Mathematics Core Beyond General Requirements	30
A. Analytic Geometry and Calculus	9
B. Differential Equations	3

C. Modern Geometry I 3

D. Modern Algebra I, II 6

E. Advanced Calculus I, II 6

F. Mathematical Statistics 3

III. Related Area and Elective Concentration as advised 18

A. Natural Science Requirement:

1. Physics I, II (credits included in General Requirements)
2. An additional course in Physics 3-4
3. An additional year of laboratory science 8

B. Additional courses in mathematics or science may be elected to add depth to each student's program.

IV. Free Electives as advised 15

Total 128

Offerings For Concentration In Mathematics

Mat 106 Foundations of Mathematics
Mat 141 Analytic Geometry and Calculus I
Mat 142 Analytic Geometry and Calculus II
Mat 211 Linear Algebra
Mat 231 Modern Geometry I
Mat 232 Modern Geometry II
Mat 241 Analytic Geometry and Calculus III
Mat 242 Analytic Geometry and Calculus IV
Mat 343 Differential Equations
Mat 401 History of Mathematics
Mat 405 Special Topics in Mathematics
Mat 411 Modern Algebra I
Mat 412 Modern Algebra II
Mat 414 Theory of Numbers
Mat 421 Mathematical Statistics I
Mat 422 Mathematical Statistics II
Mat 425 Numerical Analysis
Mat 432 Topology
Mat 441 Advanced Calculus I
Mat 442 Advanced Calculus II
Mat 445 Complex Variable

LIBERAL ARTS AND SCIENCES: MATHEMATICS AREA

Normal sequence of courses

1					5		
	Eng	101	3			Psy 250	3
	Sci		4			SSE	3
	Lan		3			Spe	
	Mat		3			FEl	
	Spe		3				
	HEd	108	1	17			
2					6		
	Eng	102	3			Phi 480	3
	Sci		4			SSE	3
	Lan		3			Spe	
	Mat		3			FEl	
	Spe		3				
	HEd	218	1	17			
3					7		
	Lit	221	3			Geo 101	3
	His	101	3			Spe	
	Art	101	3			FEl	
	Spe		6				
	HEd	150	2	17			
4					8		
	His	102	3			Spe	
	Lit	222	3			FEl	
	Eng	103	2				
	Mus	220	3				
	Spe		6	17			

COURSE OFFERINGS

ART DEPARTMENT

MR. HALLMAN, *Chairman*

Associate Professors: McKinney, Simmendinger; Assistant Professors: Hawthorne, Hoberg, Ring, Defino.

Art 101 Introduction to Art *3 semester hours*

This course deals with the appreciation of the Fine Arts—painting, sculpture, and architecture. The following subjects are also treated: graphics, dance, ceramics, fashions. Both semesters and summer.

Art 201 Arts and Crafts *3 semester hours*

An elective course designed for either elementary or liberal arts students. The course provides an opportunity to experiment with craft materials and to produce a number of specified projects. Some of the techniques introduced are wood finishing, mosaics, embroidery, and needlepoint. The student throughout the course is made aware of the great leaders in the field of crafts both past and present. Fall semesters of even years. Summer, odd years. Elective.

Art 202 Art For the Elementary Grades *3 semester hours*

This course provides opportunity for the student to develop his powers of self-expression, to gain experience in the use of the fundamental elements and principles of art structure related to two dimensional and three dimensional expression, to establish a basis for an understanding and evaluation of children's work, and to gain a comprehensive knowledge of the school art program. Various media used. Fall, spring, summer.

Art 301 Painting I *3 semester hours*

An elective course which aims to develop expression in drawing and painting. Pictorial composition and oil painting techniques are stressed. No prerequisites. Fall, spring, summer.

Art 302 Painting II *3 semester hours*

An advanced course for the student with previous experience in oil painting. Individual expression and technical aspects in the use of materials are explored.

Art 303 Sculpture I *3 semester hours*

This course offers the student an opportunity to develop an individual expression in relation to three dimensional design. The student will have the experience of working in a variety of mediums, such as wood, clay, plaster, and certain metals. The materials are treated experimentally with the aim of achieving creative interpretation. Elective. No prerequisites. Both semesters and summer.

Art 304 Sculpture II *3 semester hours*

A concentrated course in sculpture offering advanced work in wood, alabaster, welded metal and Carrara marble. Individual interpretation is encouraged with emphasis on creative expression. Elective. Prerequisite: Sculpture I. Both semesters and summer.

Art 305 Drawing and Print Making *3 semester hours*

A combined course in which drawing for the development of a sensitivity to natural elements is stressed. The process of creative expression through the medium of the art of printing is also emphasized.

Art 401 Aesthetics *3 semester hours*

This course is directly concerned with theories and philosophies of art, the psychological and physical impact of art on both the individual and the social group. Basic influences which engender the creative process are included in this course. Elective. Spring semester of odd years.

Art 405 History of Western Art I
Prehistoric to Renaissance *3 semester hours*

A Liberal Arts course which traces the development of Western Art forms from ancient Middle East origins to European Middle Ages. Special emphasis given the interrelationship of secular and religious ideas to changing artistic forms. Consideration given the distinctive nature of Western forms and ideas as opposed to parallel Eastern developments. (It is suggested, if possible, that students take History of Non-Western Art concurrently.) Both semesters.

Art 406 History of Western Art II
Renaissance to Present *3 semester hours*

Continuation of 405. Special attention given to interpreting the impact of the Copernican cosmology of the evolution of period styles: Renaissance, Mannerism, Baroque, Rococo, Neo-Classicism, Romanticism, etc. Both semesters.

Art 407 History of Non-Western Art *3 semester hours*

A Liberal Arts course designed to relate art to the total view of Eastern social philosophy. Main emphasis placed on China, Korea, and Japan, but the essential background of Middle East origins will also be studied. (See 405.) Spring semester.

Art 408 Arts of the United States *3 semester hours*

A Liberal Arts course covering painting, architecture, sculpture, and the decorative arts of high society and folk traditions. Special attention given to the conflict between artistic motivation and the demands of the market place; between traditional art forms and the need for new forms resulting from industrialism. Fall semester.

EDUCATION DEPARTMENT

DR. BENDA, *Chairman*

Professors: Bannon, Gregg, Hill, King, McTavish, Micken, Weagley; Associate Professors: Clark, Freeman, Haas, Habecker, Herres, Lander, Lynch, McClure, Mississyan, Patterson, Pottieger, Recktenwald, Schuler, Sedinger, Strayer, Studenmund, Swiren; Assistant Professors: Barth, Buechele, Emery, Francella, Good, Greenberg, Holinjak, Kulp, McKendry, Morganthall, Rahn, Redmond, Talley, Walters; Instructors: Bourgeois.

DEMONSTRATION SCHOOL

MR. CARTRIGHT, *Principal*

Assistant Professors: DiMarco, Grafton, Jones, Wolfe; Instructors: Bayne, Chalick, Morgan.

Edu 100 Social Foundations of Education *3 semester hours*

A course to acquaint prospective teachers with the opportunities and requirements of the profession. Attention will be given the role of the school in the community and society. How the school is organized, administered, and supported will be emphasized. Activities will include actual observation of schools in operation. Both semesters and summer session.

Edu 300 Audio-Visual Education *2 semester hours*

Consideration of the need for sensory techniques and materials in the learning process with attention given to the psychological principles involved. Acquaintance with and achievement of skills in specific techniques, materials, and equipment. Activities will include actual production of materials for classroom use and participation in their use. Both semesters and summer session.

Edu 301 Early Childhood Education *3 semester hours*

Study of preschool children, nursery school and kindergarten programs, materials, equipment and procedures, records, and reports. Consideration is given to the values of preschool education and the relationship between the kindergarten and first grade programs. Laboratory school experiences supplement reading and discussion of acceptable standards and teaching practices. Prerequisite: Human Development (Childhood), or permission of the instructor. Spring semester and summer session.

Edu 302 Problems of Secondary Education *3 semester hours*

This course is designed to acquaint students who are preparing to teach on the secondary level with the basic problems and responsibilities found within the framework of a secondary school. The course includes some phases of guidance. Consideration is given to the role the teacher is expected to play within the overall guidance organization. Both semesters and summers.

Edu 303 Creativity in the Classroom *3 semester hours*

A course dealing with the exploration of materials and processes of children's perceptions and behavior with a view to encouraging the development of their critical and creative potentials. Summer session.

Edu 306 Introduction to Guidance and Counseling *3 semester hours*

A survey course which focuses upon such guidance processes as individual appraisal, the information service, counseling, placement, and follow-up procedures. Group guidance processes will also be discussed, such as orientation, homeroom guidance, and the like. Prerequisite: General Psychology. Both semesters and summers.

Edu 307 Diagnostic and Remedial Reading *3 semester hours*

Recent research in the field of reading to acquaint students with problems and needs common to incompetent readers and with the most successful materials and techniques for dealing with such problems. Demonstration and practice in testing, planning, and directing remedial programs with groups and individuals. Prerequisite: Edu 309 or Edu 319. Spring semester and summer session.

Edu 309 Language Arts in the Elementary School
6 semester hours

A study of the concepts basic to language instruction, language development in children, listening, oral language, nature of the reading process, child development and reading, materials of instruction, the reading program, and written expression, including handwriting and spelling. Attention is focused on the interrelationships among these various facets of the language arts and their implications for teaching. This course combines the content of Edu 317 and of Edu 319, but it focuses on the interrelatedness among the language arts. Both semesters and summer.

Edu 310 School and Community *3 semester hours*

Study of group and intergroup activities and the role of the individual in the group; of community interests, needs, resources and problems; of teacher responsibility in community activities; professional, social, civic, religious, and political. Student participation in community activities is stressed. Spring semester and summer session.

Edu 317 Oral and Written Expression in the Elementary School *3 semester hours*

Survey of the content of the curriculum in English in the elementary grades; oral and written expression, including listening, principles of grammar, handwriting and spelling. By permission of Director of Undergraduate Program. Evenings and summer session.

Edu 319 Reading in the Elementary School *3 semester hours*

Backgrounds and nature of the reading process, child development and reading, reading program through the grades, including a presentation of a variety of modern materials and approaches to reading instruction. With department approval and by permission of Director of Undergraduate Studies. Evenings and summer session.

Edu 320 Teaching of Reading in Secondary School Academic Subjects *2 semester hours*

This course is designed to enable secondary school teachers to understand and to cope with the wide range of high school pupils' needs and abilities and to provide experiences and instruction in the development of materials, methods and techniques, and skills in meeting the requirements of systematic, sequential, and coordinated reading programs. It is a practical course in which the students experience the uses of a wide variety of structured exercises prepared to improve one's vocabulary, study habits, reading comprehension, and other skills in reading, and in which students construct such exercises for use in teaching. Both semesters and summer.

Edu 330 Teaching the Exceptional Child *3 semester hours*

The study of atypical children who need help in order to adjust and succeed to the extent of their capacity. Students are guided in recognizing, understanding, and dealing with the additional needs of the physically or mentally handicapped child and the superior child, and in fostering their social and emotional development. Attention is directed to the selection of learning aids and materials and the adaptation of teaching techniques in the normal classroom situation. Prerequisite: General Psychology. Both semesters and summer session.

Edu 340 The Curriculum and the Gifted Child *3 semester hours*

This course deals with a study of the gifted child and ways of providing an effective educational program to meet his needs. Recent research on the gifted child will provide a basis for studying the curriculum and methods of teaching which schools have found to be most effective and practical. Summer session.

Edu 350 Educational Psychology *3 semester hours*

A course in the psychology of learning with application to varied learning situations. The application to classroom learning is especially emphasized through observation and interpretation of actual classroom learning situations. Prerequisite: General Psychology.

Edu 360 The Culturally Disadvantaged Child *3 semester hours*

A survey concerning the backgrounds, problems, and potentialities of the culturally disadvantaged school youth. It will deal with all levels of education, pre-school through high school. Prerequisites: General Psychology, Educational Psychology and Human Development.

Edu 401 Problems of Elementary Education *3 semester hours*

This course deals with the educative process as a functional relationship between the learner and his environment aided by organized learning situations. An attempt is made to draw together all the methods in terms of basic curriculum principles for the modern elementary school. The prospective teacher is introduced to the scope of the teacher's day-to-day responsibilities and helped to develop insight into how these responsibilities can be carried out effectively. Prerequisite: All psychology and methods courses listed for first six semesters. Both semesters and summer.

Edu 411 Student Teaching and Direction of Student Activities (Elem. Majors) *12 semester hours*

Prerequisite: 96 semester hours including all psychology and methods courses listed for first six semesters.

Edu 412 Student Teaching and Direction of Student Activities (Sec. Majors) *12 semester hours*

Observation and participation in all teaching and activities related to the performance of a teacher's work, in the area of the student's specialization. Both semesters and summer session.

Edu 413 Professional Practicum including School Law (Elem. Majors) *2 semester hours*

Methods and practices of teaching; general techniques of teaching and techniques for the students' special fields: Pennsylvania school laws relevant to the work of the classroom teacher; problems encountered by the students in their student teaching. Both semesters and summer session.

Edu 414 Professional Practicum Including School Law (Sec. Majors) *2 semester hours*

Methods and practices of teaching; general techniques of teaching and techniques for the students' special fields; Pennsylvania school laws relevant to the work of the classroom teacher; problems encountered by the students in their student teaching. Both semesters and summer session.

Edu 441 Workshop in Elementary Education *4 semester hours*

A course designed for college graduates and teachers-in-service. Newer ideas and practices in teaching are evaluated. Materials of instruction and courses of study are examined. Opportunity is given enrolees to work on individual and group problems. Children are observed in the Campus Demonstration School. Course is offered in the regular summer session only. By permission of Director of Undergraduate Studies.

Edu 451 Tests and Measurements in Guidance *3 semester hours*

A survey of testing materials and procedures with emphasis on the interpretation and application of results for pupil guidance purposes. Areas studied will include examination of various types of testing materials, criteria for selection, techniques for summarizing data, organization, administration, and evaluation of the testing program. Prerequisite: General Psychology and Educational Psychology. Both semesters and summer session.

PSYCHOLOGY

Psy 250 General Psychology *3 semester hours*

A comprehensive study of the origins, motives, and modifications of human behavior with emphasis on the scientific approach in analyzing behavior patterns; the importance of man's biological inheritance, and the significance of social environment in influencing human living. Attention is given to the simpler techniques in psychological experimentation. Both semesters and summer session.

Psy 341 Psychology of Exceptional Children *3 semester hours*

Psychology of children having superior or inferior intellectual ability; defective vision, hearing and speech; emotional, social and physical handicaps. Prerequisite: General Psychology. Spring semester and summer session.

Psy 343 Psychology of the Mentally Retarded *3 semester hours*

A survey of the psychological development of mentally retarded children with special emphasis on socio-economic, cultural, emotional and educational factors which influence their behavior. Prerequisite: Psy 341. Fall semester.

Psy 351 Human Development (Childhood) *3 semester hours*

A study of child growth, from birth through preadolescence, with emphasis on individual differences among children and on the interrelatedness of the various aspects of development (physical, mental, emotional, social, and moral). Stress is placed on studying, understanding, and guiding children's behavior at the elementary school level. Prerequisite: General Psychology.

Psy 352 Human Development (Adolescence) *3 semester hours*

This course is concerned with a practical understanding of personality development, maturation, and problems of the adolescent. Attention is given to the inter-relationship of physical, emotional, and social growth within the context of such social institutions as the home, school, and community. Prerequisite: General Psychology. Fall, spring, and summer sessions.

Psy 353 Child Adjustment *3 semester hours*

Application of the principles of mental hygiene to the problems of elementary school children in home, school and community. Emphasis is directed toward an understanding of the causative factors in children's behavior, an intensive study of emotional development, and a critical analysis of typical classroom situations. Prerequisite: Psy 250. Summer session.

Psy 354 Social Psychology *3 semester hours*

A study of the individual in his social setting, including social norms and frames of reference, and the influence of groups and subcultures on personality and social behavior. Research studies in the field of social psychology will be compared and evaluated. Prerequisite: General Psychology or the equivalent.

Psy 355 Experimental Psychology *3 semester hours*

A laboratory course to introduce planning, performing, and evaluating psychological experiments. Students carry out both original and classical experiments in the main areas of psychology. The experimental literature is reviewed. Two lectures plus a double-period laboratory session per week. Prerequisite: Psychology 250. Spring semester and summer session.

Psy 356 The Study of Personality *3 semester hours*

This course is designed primarily to provide insight into the meaning, development, and structure of the normal human personality. To accomplish this a number of approaches will be investigated, representative theories examined, and techniques for assessing personality characteristics evaluated. The chief emphasis will be on developing propositions established from various points of view examined in the course. Prerequisites: General Psychology and Educational Psychology, Human Development or equivalent.

Psy 370 Mental Hygiene *3 semester hours*

This course attempts to analyze the individual from several standpoints according to the principles of mental hygiene. The practical phase of the course is the application of these principles to the individual's problems of adjustment to the school and society. Field trips are also included in the course content. Prerequisite: General Psychology. Fall semester and summer session.

Psy 450 Abnormal Psychology *3 semester hours*

A course designed to acquaint the student with the nature and manifestations of normality and abnormality, mental mechanisms and symptoms, psychoneuroses, psychoses, and the psychopathic personality. Study of typical cases will include the functions of both professional and lay people in dealing with abnormality. Prerequisites: General Psychology, Educational Psychology, Human Development, or the equivalent.

SPECIAL EDUCATION

SpE 344 Problems in Special Education *2 semester hours*

A study of significant problems in the field of Special Education. Topics for special study include: articulation of primary and secondary programs; interpretation of special education program to parents, school personnel, and the community; development of community resources to meet the need of atypical children; selection of pupils and problems of organization. Spring semester.

SpE 348 Curriculum and Methods for Mentally Retarded *3 semester hours*

Course dealing with the effective methods of teaching mentally retarded children, the development of programs of study, classroom techniques, adaptations of materials and appraisal of results. Both semesters.

SpE 349 Curriculum and Methods for Physically Handicapped *3 semester hours*

A course dealing with the effective methods of teaching physically handicapped children, the development of programs of study, adaptation of materials and appraisal of results. Both semesters.

ENGLISH DEPARTMENT

MR. CLOKEY, *Chairman*

Professors: Bailey, Berry, Binney, Jordan, Slagle, Thomas; Associate Professors: Bosworth-Fling, Bruehl, Cope, Henry, Kershner, Landrum, McDowell, McKenty, Peterson, Smith, Smith, Suppan, West; Assistant Professors: Ford, Griffin, Holman, Jacobs, Mayson, Thurbon, Ward; Instructors: Bruton, Giles, Hamilton, Manburg, Romanelli, Rowe.

English Composition

Eng 101 Grammar and Composition *3 semester hours*

Brief review of grammar and mechanics. Vocabulary study. Writing of compositions based upon wide reading by students. An introduction to the use of the library. Both semesters and summer sessions.

Eng 102 Composition *3 semester hours*

Study of composition: methods and types of exposition, description, narration; paragraph and theme writing; book reviewing. Detailed study of techniques of research and writing of an original research paper. Wide reading. Logic as applied to composition. Prerequisite: Eng 101. Both semesters and summer sessions.

Eng 103 Speech *2 semester hours*

Study and application of fundamental principles of effective speaking; training in selection, organization, and development of material suitable for speeches; analysis of voice; emphasis on personality adjustment as related to speaking-listening situations; and vocabulary building. Special emphasis also given to group discussion and parliamentary procedures. Both semesters and summer sessions.

Eng 211 Journalism *3 semester hours*

The organization, management, and supervision of the content of school publications; the preparation of school publicity materials and the development of journalistic style through practical participation in journalistic activities. Fall semesters and summer sessions. Prerequisites: English 101, 102.

Eng 313 Advanced Writing *3 semester hours*

Experience in writing through the preparation of reviews and critical reports, employing expository, descriptive, narrative, and argumentative techniques. Consideration of style and diction. Some experience in creative writing. Prerequisites: English 101, 102. Spring semesters.

Eng 314 History of Language *3 semester hours*

A review of the major forces and influences which have shaped language development with emphasis on the history of the English language. Both semesters.

Eng 315 Advanced Grammar *3 semester hours*

A study of the role and development of English grammar including a survey of the linguistic influences on the descriptive approach to this discipline. Prerequisites: English 101, 102. Both semesters.

Eng 316 Teaching English in Secondary Schools *3 semester hours*

A review of the content of language-arts requirements of the secondary school, with special reference to grade-placement with adaptation of materials, appraisal of results, and the development of programs of study. Prerequisites: First and second years' English courses. Both semesters.

Eng 317 Old English Language and Literature *3 semester hours*

An introductory study of the language and a review of selections from the religious and secular poetry. Prerequisite: English 314. (Pending approval.)

Eng 318 Middle English Language and Literature

3 semester hours

An introductory study of the language and a review of Middle English texts (exclusive of Chaucer). Prerequisite: English 314. (Pending approval.)

Literature

Lit 221 General Literature I *3 semester hours*

An introduction to literature providing opportunities for intensive reading in a wide variety of major literary works. The purpose is to familiarize students wth the development of human thought as it has been expressed in Western literature from Homer to Cervantes. Both semesters.

Lit 222 General Literature II *3 semester hours*

Shakespeare to the present. Prerequisite: Literature 221. Both semesters.

Lit 227 General Literature II *3 semester hours*

Literature of Continental Europe from Neoclassicism to the present. For English Majors and Liberal Arts Humanities Majors only—in lieu of Literature 222 All reading will be done in translation. Prerequisite: Literature 221. Both semesters.

Lit 223 American Literature I *3 semester hours*

A survey of representative American writings from Colonial times to 1860, particular attention being given those writings which best exemplify democratic ideals and national character. Fall semesters.

Lit 224 American Literature II *3 semester hours*

A survey of representative American writings from 1860 to the present. Spring semesters.

Lit 225 English Literature I *3 semester hours*

English literature surveyed from Anglo-Saxon times to Robert Burns, with emphasis on recognized major works. Two basic aims: (1) to develop broader knowledge of the growth of English literature and its relation to historical movements, and (2) to provide wide reading for more intelligent appreciation. Fall semesters.

Lit 226 English Literature II *3 semester hours*

English literature surveyed from Robert Burns to the present. Spring semesters.

Lit 321 Great Books I *3 semester hours*

A study in depth of six selected major writings that have made significant contributions to the development of Western Civilization.

Lit 322 Great Books II *3 semester hours*

Six additional masterworks are used to continue the study of the progress of Man in the world.

Lit 331 Chaucer *3 semester hours*

The course is concerned with the *Canterbury Tales, Troilus and Creseyde,* and selected poetry; emphasis is upon literary interpretation rather than language. Prerequisites: Literature 225, 226. Spring semesters.

Lit 332 English Drama to the Renaissance *3 semester hours*

A study of the drama in England from the early liturgical tropes to Shakespeare's contemporaries. Fall semester of even years.

Lit 333 Shakespeare I *3 semester hours*

A study of selected comedies, histories, and tragedies with emphasis on literary and historical background and on Shakespeare's development as a dramatist. Fall semesters.

Lit 334 Shakespeare II *3 semester hours*

A continuation of the first semester. Spring semesters.

Lit 335 Eighteenth-Century Literature *3 semester hours*

A critical consideration of significant eighteenth-century writers with emphasis upon the struggle between tradition and revolt as reflected in the works of the representative writers of the period. Spring semester of odd years.

Lit 336 The Romantic Movement *3 semester hours*

A study of Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries in the light of social background and critical doctrine. Spring semesters of even years.

Lit 337 Victorian Literature *3 semester hours*

A study of Victorian thought and culture as seen in the prose writers and poets of the period. Special reference to major writers: John S. Mill, Ruskin, Arnold, Tennyson, Browning, and others. Prerequisites: Literature 225, 226. Fall semesters of even years.

Lit 339 Tudor-Stuart Literature *3 semester hours*

A study of the prose and poetry of the Tudor and Stuart periods with emphasis on major writers not covered in individual courses: Spenser, Marlowe, Jonson, Milton, Donne, the Cavaliers, Dryden, and others. Prerequisites: Literature 225, 226. Fall semesters of odd years.

Lit 329 Classical Mythology *1 semester hour*

A study of the literature of mythology. Fall semesters of odd years.

Lit 330 Medieval Literature in England *3 semester hours*

Medieval English Literature (1066-1500). A survey of literature from the Norman conquest to the accession of the Tudors, emphasizing the popular forms: lyric, romance, metrical tale, fabliaux, and ballad. Prerequisites: Literature 225, 226. Spring semesters of odd years.

Lit 341 Novel to 1870 *3 semester hours*

A study of the rise and development of the novel in English from the eighteenth century to Hardy and Mark Twain. The reading of a selected list of novels for analysis with a view to cultivating an appreciation of this dominant literary form. Fall semesters of odd years.

Lit 342 Contemporary Novel *3 semester hours*

A study of modern and contemporary movements in fiction, based on the critical reading and analysis of English and American novels published since 1870. Spring semesters of even years.

Lit 343 Contemporary Poetry *3 semester hours*

An examination of representative poetry published since 1870 in both England and America and a study of forms, aspects, and tendencies in contemporary verse, with particular reference to poetry as a criticism of modern life. Fall semesters of even years.

Lit 345 Criticism *3 semester hours*

A historical study of literary criticism and aesthetic theory, with emphasis upon romanticism and classicism. Spring semesters of even years.

Lit 346 Essay *3 semester hours*

A study of the history and development of the essay as a distinctive literary form, together with readings in current periodical nonfiction, and provision for opportunities for self-expression through writing. Spring semesters of odd years.

Lit 348 Short Story *3 semester hours*

A study of the development of the short story as a distinct and popular current literary form. Fall semesters of even years.

Lit 349 Bible as Literature *3 semester hours*

A study of the books of the English Bible, especially the King James Version, as they have become a part of English and American Literature and of the cultural heritage of the English speaking people. Spring semesters of odd years.

Lit 350 Children's Literature *3 semester hours*

An introduction to important children's books, old and new, and to techniques for presentation of book material, the encouragement of wide reading of juvenile literature and provision of criteria for and experience in the evaluation of children's books. Each semester.

Lit 351 Modern Drama I *3 semester hours*

A comprehensive view of the best dramatic literature of modern European, American, and British theater since 1890. Fall semesters of odd years.

Lit 352 Modern Drama II *3 semester hours*

A close study of the work and contribution of no more than five of the most significant Western playwrights of the twentieth century.

Theater Arts — Speech Offerings

Eng 353 Speech Problems *3 semester hours*

A survey course introducing students to the various speech problems common to children in the public schools. Emphasis is placed upon the theory of the symptoms, cause, and remedial treatments used by the classroom teacher in improving the speech of all children. Each semester.

Eng 355 Speech Clinic *1 semester hour*

Practical application of theory in the treatment of speech problems is given through working with patients. In addition, lesson plans, preparation of materials, conferences, observations, and preparation of case histories and final reports will be required. Prerequisites: English 353 and approval of the instructor. Both semesters.

Eng 356 Introduction to Hearing Problems *3 semester hours*

This survey course will explore the physiological basis of hearing, types of hearing disorders, techniques of administering pure tone audiometric tests, the interpretation of test results, and practical application of audiometric findings to hearing-handicapped individuals.

Theater Arts

ThA 101 Theater Workshop *1 semester hour*

Students enroll in order to gain intensive practical experience in all aspects of theatrical production. Course is open to any student, regardless of rank, and may be repeated. No student shall accumulate more than three credits. Both semesters.

ThA 102 Oral Interpretation *3 semester hours*

Students receive instruction in the techniques of getting the meaning from the printed page, in the recognition of the structural aspects of the various literary forms, and in the use of voices and movements to communicate the results of their analyses to critical audiences. Fall semesters of odd years.

ThA 103 Principles of Acting *3 semester hours*

A study of the basic techniques of acting, including body movements as the basis of pantomime, use of the voice as the instrument of oral interpretation, and use of improvisation as the key to fully realized characterization. Prerequisite: ThA 102. Spring semesters of odd years.

ThA 104 Principles of Stagecraft and Lighting *3 semester hours*

A course designed to develop students' ability to use the principles of design, construction, and assembly of stage scenery and equipment. Stage lighting and the use of technical equipment are studied. Fall semesters of odd years.

ThA 105 Creative Theater for the Elementary School *3 semester hours*

A study of the technique and theory of playmaking to be used as a method of teaching for adults and a means of expression for children. This course offers actual participation of the student in story telling, story dramatization, rhythms, and pantomime. Emphasis will be on the development of a creative imagination.

ThA 201 Principles of Costuming and Make-up
3 semester hours

Advanced study in the aesthetics of costume and make-up design. Laboratory sessions covering construction of costumes and practice in make-up utilizing various techniques. Spring semesters of even years.

ThA 202 Principles of Designing for the Stage
3 semester hours

Explores the aesthetic principles involved in designing for both the open and the proscenium stages. Plastic scenic design and lighting design considered. Prerequisite ThA 104. Fall semesters of even years.

ThA 203 Principles of Play Production and Directing
3 semester hours

A course covering the relation of the director to the play, modern principles of production and direction, and practical work with these principles. Prerequisites: ThA 103, 104. Spring semesters of even years.

ThA 204 Television I *3 semester hours*

Lectures and practical work designed to introduce the student to telecasting techniques and to the use of television in the class room, with special emphasis upon pictorial presentation and the tools of the television broadcaster. Permission of instructor required. Fall semesters.

ThA 205 Television II *3 semester hours*

Continuation of Television I with practice in producing television programs. Permission of instructor required. Spring semesters.

ThA 206 Theater Production for Schools *3 semester hours*

A survey and analysis of long and short plays for non-commercial educational production. Consideration is given playwright, audience, and physical equipment, including scenery, lighting, properties, make-up and costume. Each student assumes the duties of director and/or production coordinator of a short play.

ThA 301 History of Drama and Theater I *3 semester hours*

An investigation of the origins of the drama and its development in Western culture from the Greeks to the present. Aesthetics of the stage and its literature are explored. Fall semesters of even years.

ThA 302 History of Drama and Theater II *3 semester hours*

An introduction to classical Hindu dance-drama, Peking theater, and the two classical dramatic forms of Japan: No and Kabuki. All aspects of these forms are investigated, including their relationship to the societies from which they come. Spring semesters of even years.

FOREIGN LANGUAGE DEPARTMENT

DR. ROBERTS, *Chairman*

Associate Professors: Glumac, Kuhlmann, Parker, Rodriguez; Assistant Professors: Collado, du Gard, Frieman, Kulhanek, Lombardi, Roseman.

French

Fre 101 Elementary French I *3 semester hours*

A study of the fundamentals of French grammar, syntax, and pronunciation. Introduction to French culture through easy reading texts. The audio-lingual method is employed at all times. Work in the language laboratory is required.

Fre 102 Elementary French II *3 semester hours*

A continuation of French 101 with increased emphasis on reading and conversation in French. Language laboratory drill required.

Fre 103 Intermediate French I *3 semester hours*

An intensive review of grammar and syntax. Selected readings in French literature to serve as a basis for class discussion in French and practice in composition. Language laboratory drill assigned for remedial work only. Prerequisite: Fre 102 or equivalent.

Fre 104 Intermediate French II *3 semester hours*

A continuation of French 103 with more extensive practice in composition and conversation.

All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations are required to be written in the foreign language.

Fre 201 Survey of Literature I *3 semester hours*

A study of the development of French literature from its earliest beginnings to the French Revolution. Prerequisite: Fre 104 or equivalent.

Fre 202 Survey of Literature II *3 semester hours*

A study of the development of French literature from the French Revolution to the present. Prerequisite: Fre 104 or equivalent.

Fre 203 Advanced Grammar and Composition *3 semester hours*

A study of the more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more sophisticated and advanced level, with emphasis on correct usage. Prerequisite: Fre 104 or equivalent.

Fre 301 Advanced Language and Techniques *3 semester hours*

An introduction to the problems, methods, and materials involved in the teaching of French. Observation of foreign language classes being taught. Prerequisite: Fre 104 or equivalent.

Fre 302 General Linguistics *3 semester hours*

Methods of modern linguistic science as applicable to the study and teaching of the major European languages. Principles of structural analysis of living languages and of historical linguistics. Brief survey of the development of Germanic, Romance and Slavic languages and their cross-influences.

Fre 303 French in the Elementary School *3 semester hours*

A study of the techniques and materials used in teaching French in the elementary school. Practice in the application of these techniques and observation of foreign language classes in the Demonstration School. Prerequisite: Fre 102 or equivalent.

Fre 304 French Civilization *3 semester hours*

A survey of France's political and educational systems, her economic and religious institutions, and her folkways, along with a consideration of the status of the arts in France today. Prerequisite: Fre 103 or equivalent.

Fre 401 French Literature of the 18th Century *3 semester hours*

A study of the evolution of the various literary genres in France in the 18th century with particular attention to the works of Voltaire, Rousseau, Montesquieu and Diderot. Prerequisite: Fre 201.

Fre 402 French Literature of the 19th Century
3 semester hours

A study of the development of the various literary movements of the nineteenth century as manifested in the poetry, drama and novel of the period. Prerequisite: Fre 202.

Fre 403 Contemporary French Literature *3 semester hours*

A study of the works of the outstanding literary figures of the twentieth century and of the various philosophico-esthetic movements which have contributed to their development. Prerequisite: Fre 202.

Fre 404 French Classical Drama *3 semester hours*

A study of the masterpieces of Corneille, Racine and Moliere. Prerequisite: Fre 201.

JUNIOR YEAR ABROAD PROGRAM

Fre 361-62: Advanced Grammar and Composition
6 semester hours

A thorough analysis of the grammatical and syntactical structure of French, followed by extensive practical application in free and controlled composition.

Fre 363-64: Advanced French Conversation *6 semester hours*

Intensive drill in correct usage of contemporary speech patterns. Extensive opportunity for oral self-expression.

Fre 365-66: Phonetics and Translation *6 semester hours*

A thorough study of the sounds of French through the medium of the international phonetic alphabet, and a study of the art of translation. The language laboratory is used extensively for phonetic drill.

Fre 367-68: Contemporary French Civilization *6 semester hours*

A complete survey in depth of the contemporary scene in France today—including social, political and economic life, science and technology, literature and art.

Fre 369-70: Linguistic Studies *6 semester hours*

A stylistic and textual analysis in the manner of the French "Explication de Texte" of selected passages from representative writers.

German

Ger 101 Elementary German I *3 semester hours*

A study of the fundamentals of German grammar, syntax, and pronunciation. Introduction to German culture through easy reading texts. The audio-lingual method is employed and language laboratory drill is required.

Ger 102 Elementary German II *3 semester hours*

A continuation of German 101 with increased emphasis on reading and conversation in German. Language laboratory drill required.

Ger 103 Intermediate German I *3 semester hours*

A review of grammar and syntax. Selected readings in German literature to serve as a basis for class discussion in German and practice in composition. Language laboratory drill required for remedial work only. Prerequisite: Ger 102 or equivalent.

Ger 104 Intermediate German II *3 semester hours*

A continuation of German 103 with more extensive practice in composition and conversation.

All advanced literature and civilization courses include lectures and discussion in the foreign language and all student papers and examinations are required to be written in the foreign language.

Ger 201 Survey of Literature I *3 semester hours*

A study of the development of German literature and civilization from their earliest beginnings to 1800. Prerequisite: Ger 104 or equivalent.

Ger 202 Survey of Literature II *3 semester hours*

A study of the development of German literature and civilization from 1800 to the present. Prerequisite: Ger 104 or equivalent.

Ger 203 Advanced Grammar and Composition *3 semester hours*

A study of the more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more sophisticated and advanced level, with emphasis on correct usage. Prerequisite: Ger 104 or equivalent.

Ger 301 Advanced Language and Techniques *3 semester hours*

An introduction to the problems, methods and materials involved in the teaching of German. Observation of foreign language classes being taught. Prerequisite: Ger 104 or equivalent.

Ger 302 General Linguistics *3 semester hours*

Methods of modern linguistic science as applicable to the study and teaching of the major European languages. Principles of structural analysis of living languages and of historical linguistics. Brief survey of the development of Germanic, Romance and Slavic languages and their cross-influences.

Ger 401 The Age of Goethe *3 semester hours*

A study of German literary doctrines and masterpieces of the periods of Enlightenment, Storm and Stress and Classicism. Prerequisite: Ger 104 or equivalent.

Ger 402 Contemporary German Literature *3 semester hours*

A study of the works of the principal German writers of the 20th century and of the background of events and ideas which have contributed to their development. Prerequisite: Ger 104 or equivalent.

Ger 403 The German Short Story *3 semester hours*

A study of the German short story from Romanticism to the present. Prerequisite: Ger 104 or equivalent.

Ger 404 Goethe *3 semester hours*

A reading and discussion of the important works of Goethe and a study of the author's background and literary development. Prerequisite: Ger 201.

Ger 405 Scientific German *3 semester hours*

Review of syntax, reading and translation in general science and basic technical fields. Prerequisite: Ger 102 or equivalent.

Ger 406 German Civilization *3 semester hours*

A study of the evolution of Germany's social, political and economic institutions. An analysis of the major contributions of German civilization to Western culture.

Latin

Lat 101 Beginning Latin I *3 semester hours*

For students who have had no previous Latin. Forms, syntax, and idioms of classical Latin. Selected readings.

Lat 102 Beginning Latin II *3 semester hours*

A continuation of Latin 101. Records and tapes in Latin are used to supplement class work.

Lat 201 Cicero *3 semester hours*

Prerequisite: Latin 101-102, or two years of secondary school Latin. Selections from the orations, letters, and essays.

Lat 202 Virgil *3 semester hours*

Prerequisite: Latin 201, or three years of secondary school Latin. Reading and analysis of celebrated portions of the *Aeneid* and a study of the nature of Latin epic poetry.

Lat 203 Roman Historians *3 semester hours*

Portions of Livy, Tacitus, and Suetonius.

Prerequisite to courses 301-405: Latin 202, or four years of secondary school Latin.

Lat 301 Advanced Language and Techniques *3 semester hours*

An introduction to the problems, methods, and materials involved in the teaching of Latin.

Lat 302 The Lyric Poets *3 semester hours*

Readings in Catullus and the Odes and Epodes of Horace.

Lat 303 Latin Prose Composition *3 semester hours*

Translations of English prose into classical Latin.

Lat 304 The Elegiac Poets *3 semester hours*

A study of Latin elegiac poetry through readings in Ovid, Propertius, and Tibullus.

Lat 401 Roman Drama *3 semester hours*

Selected plays of Plautus, Terence, and Seneca. A study of Roman drama, its origins and development.

Lat 402 Roman Philosophy *3 semester hours*

Cicero, *Tusculan Disputations;* Lucretius, *De Rerum Natura.* Cicero presents mainly the Platonic view; Lucretius argues in epic verse for Epicurus' creed.

Lat 403 Roman Satire *3 semester hours*

Readings in Horace, Juvenal, and Persius.

Lat 404 The Latin Novel *3 semester hours*

Readings in Petronius, *Satyricon*, and Apuleius, *The Golden Ass.* Lectures and discussion of the emergence of the novel as a literary form.

Lat 405 Tutorial Course *3 semester hours*

Required of majors in Latin; open to other students accepted by the instructor. An introduction to the history of the alphabet; the principles of comparative linguistics, especially as applied to Latin; and the history of the language as seen in passages from ancient authors.

Greek

Gre 101 Beginning Greek I *3 semester hours*

For students who have had no previous Greek. Forms, syntax, and idioms of classical Greek.

Gre 102 Beginning Greek II *3 semester hours*

A continuation of Greek 101.

Gre 103 Intermediate Greek I *3 semester hours*

A review of Attic grammar and readings in Attic Legendists and historians.

Gre 104 Intermediate Greek II *3 semester hours*

Greek tragedy. A play of Aeschylus and one of Euripides will be read and analyzed.

Russian

Rus 101 Beginning Russian I *3 semester hours*

A study of the fundamentals of Russian grammar, syntax and pronunciation. Extensive drill in the language laboratory is required. One class hour per week in the language laboratory.

Rus 102 Beginning Russian II *3 semester hours*

A continuation of Russian 101 with increased emphasis on reading and conversation in Russian. One class hour per week conducted in the language laboratory.

Rus 103 Intermediate Russian I *3 semester hours*

A grammar review with selected readings in Russian literature to serve as a basis for class discussion in Russian and practice in composition. Language laboratory drill recommended for those needing further work in pronunciation and intonation. Prerequisite: Rus 102 or the equivalent.

Rus 104 Intermediate Russian II *3 semester hours*

A continuation of Russian 103 with more extensive practice in composition and conversation.

All advanced literature and civilization courses include lectures and discussion in the foreign language and all student papers and examinations are required to be written in the foreign language.

Rus 201 Advanced Readings in Russian Literature *3 semester hours*

A study of selected masterpieces of Russian literature. Works of Pushkin, Lermontov, Turgenev and Gorki will be read and analyzed. Prerequisite: Rus 104 or the equivalent.

Rus 202 Advanced Readings II *3 semester hours*

A continuation of Russian 201.

Rus 203 Advanced Grammar and Composition *3 semester hours*

A study of the more complex grammatical and syntactical structure of the language, with particular attention to stylistics. Practice in writing compositions on a more sophisticated and advanced level, with emphasis on correct usage. Prerequisite: Rus 104 or equivalent.

Rus 301 Advanced Language and Techniques *3 semester hours*

An introduction to the problems, methods, and materials involved in the teaching of Russian. Prerequisite: Rus 104 or equivalent.

Rus 302 General Linguistics *3 semester hours*

Methods of modern linguistic science as applicable to the study and teaching of the major European languages. Principles of structural analysis of living languages and of historical linguistics. Brief survey of the development of Germanic, Romance and Slavic languages and their cross-influences.

Rus 303 Scientific Russian I *3 semester hours*

A review of syntax; reading and translation in general science and basic technical fields. Prerequisite: Rus 104 or equivalent.

Rus 304 Scientific Russian II *3 semester hours*

A continuation of Scientific Russian I.

Rus 401 The Russian Novel *3 semester hours*

A study of the masterpieces of the Russian novel and literary trends of the 19th and 20th centuries. Prerequisite: Rus 201 or equivalent.

Rus 402 The Russian Drama *3 semester hours*

A study of the works of the major Russian dramatists of the 19th and 20th centuries. Prerequisite: Rus 201 or equivalent.

Spanish

Spa 101 Elementary Spanish I *3 semester hours*

A study of the fundamentals of Spanish grammar, syntax and pronunciation from the oral-aural point of view. Introduction to Spanish culture through easy reading texts. One class a week conducted in the language laboratory for work on pattern drills.

Spa 102 Elementary Spanish II *3 semester hours*

A continuation of Spanish 101 with emphasis on reading and conversation in Spanish with the aim of increasing oral-aural skills in the language. Language laboratory class once a week.

Spa 103 Intermediate Spanish I *3 semester hours*

A review of Spanish grammar and syntax. Selected readings in Spanish literature to serve as a basis for class discussion in Spanish and practice in composition. Language laboratory drill recommended for remedial work where needed. Prerequisite: Spa 102 or equivalent.

Spa 104 Intermediate Spanish II *3 semester hours*

A continuation of Spanish 103 with extensive practice in composition and conversation on a more advanced level.

All advanced literature and civilization courses include lectures and discussion in the foreign language and all student papers and examinations are required to be written in the foreign language.

Spa 201 Survey of Literature (Golden Age) *3 semester hours*

A study of the masterpieces of Spanish literature from its earliest beginnings to the 18th century with special emphasis on the literature of the Golden Age. Prerequisite: Spa 104 or equivalent.

Spa 202 Survey of Literature (Since 1800) *3 semester hours*

A study of the masterpieces of Spanish literature from 1800 to the present. Prerequisite: Spa 104 or equivalent.

Spa 203 Advanced Grammar and Composition *3 semester hours*

A study of the more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more sophisticated and advanced level, with emphasis on correct usage. Prerequisite: Spa 104 or equivalent.

Spa 301 Advanced Language and Techniques *3 semester hours*

An introduction to the problems, methods and materials involved in the teaching of Spanish. Observation of foreign language classes being taught. Prerequisite: Spa 104 or equivalent.

Spa 302 General Linguistics *3 semester hours*

Methods of modern linguistic science as applicable to the study and teaching of the major European languages. Principles of structural analysis of living languages and of historical linguistics. Brief survey of the development of Germanic, Romance and Slavic languages and their cross-influences.

Spa 303 Spanish in the Elementary School *3 semester hours*

A study of the techniques and materials used in teaching Spanish in the elementary school. Practice in the application of these techniques and observation of foreign language classes in the Demonstration School. Prerequisite: Spa 102 or equivalent.

Spa 304 Spanish Civilization *3 semester hours*

A survey of the major contributions of Spain from an eclectic point of view. Cultural, geographical, literary, philosophical and artistic manifestations of the Hispanic world are studied, appreciated, and evaluated. Prerequisite: Spa 103 or equivalent.

Spa 401 Spanish-American Literature *3 semester hours*

An examination of the masterpieces of Spanish-American Literature and of the present trends in Spanish-American literary expression. Prerequisite: Spa 104 or equivalent.

Spa 402 Contemporary Spanish Literature *3 semester hours*

A study of the masterpieces of contemporary Spanish literature against the background of 20th century literary trends. Prerequisite: Spa 104 or equivalent.

Spa 403 The Spanish "Comedia" *3 semester hours*

The Spanish "Comedia," with the major trends and streams of development during the Spanish Golden Age. Prerequisite: Spa 201.

Spa 404 The Picaresque Novel *3 semester hours*

The Picaresque novel as a uniquely Spanish genre: Lazarillo de Tormes, Guzman de Alfarache and others. Prerequisite: Spa 201.

Italian

Ita 101 Elementary Italian I *3 semester hours*

An introduction, through the audio-lingual method, to the sounds of Italian. Thorough and intensive drill, both in class and in the language laboratory, with pronunciation, intonation and basic linguistic patterns. Introduction to Italian culture by means of basic dialogues and easy reading texts.

Ita 102 Elementary Italian II *3 semester hours*

A continuation of Elementary Italian I with greater emphasis on structural analysis.

Ita 103 Intermediate Italian I *3 semester hours*

A thorough review of Italian grammar and syntax. Introduction to Italian literature through short readings of intermediate difficulty. Composition and conversation in Italian based on reading assignments. Language laboratory for remedial drill.

Ita 104 Intermediate Italian II *3 semester hours*

A continuation of Intermediate Italian I with increased emphasis on free composition and conversation.

GEOGRAPHY DEPARTMENT

DR. KEINARD, *Chairman*

Professor: Langdon; Associate Professors: Hawthorne, Bielski; Assistant Professors: Monroe, Thompson; Instructor: Tachovsky.

Geo 100 Physical Geography for Elementary Teachers *3 semester hours*

The basic concepts of physical geography are studied in relation to the total geographic concept. The operations of fundamental earth-sun relationships, land masses, oceans, landforms, weather and climate and natural resources are explained as elements and controls related to the adjustments man makes to his environment. The course is designed to help elementary teachers present a more integrated physical-cultural geography program.

Geo 101 World Geography *3 semester hours*

A course to develop a knowledge and appreciation of patterns of the natural environment throughout the world such as patterns of climate, soil, vegetation, and man's adjustment to them, with special emphasis upon man's economic and cultural responses. Both semesters and summer session.

Geo 102 Geography of the United States and Pennsylvania *3 semester hours*

A comprehensive treatment of the adjustment of the people of Pennsylvania and the United States to the physical factors—structure, relief, climate, vegetation, soils, and natural resources—which help to explain the distribution of population, land use, products, and trade within the United States and with other parts of the world. Prerequisite: World Geography.

Geo 201 Conservation of Natural Resources *3 semester hours*

A course dealing with the present problems in the conservation of our natural resources of land, water, plants, animal life, and mineral deposits, ways of solving these problems, and the wise use of these resources. Field trips are required. Spring semester and summer session.

Geo 202 Geography of United States and Canada *3 semester hours*

A regional study of the United States and Canada relative to man's adjustments to his environment as determined by the physical factors of climate, vegetation, relief, and soils. Recognition of the political adjustments to the geographic environments and the interrelations between the two countries and the rest of the world. Prerequisite: World Geography. Each semester and summer session.

Geo 203 Economic Geography *3 semester hours*

The increasing competition for the world's goods in relation to the growing world population and changing political climate of certain areas is discussed. The course also deals with modern trends and problems associated with the economic growth of the United States. Every effort is made to keep up with the changing wants and needs of man in regard to agriculture, industry, and world resources.

Geo 204 Geography of Pennsylvania *3 semester hours*

A regional study of Pennsylvania, emphasizing man's cultural and economic responses to environmental factors. Special attention is given to the resources of the state, analyzing their extent, their use, and need for their conservation and regional planning.

Geo 205 Geomorphology *3 semester hours*

The course involves the study of the dynamic tectonic and gradational forces, which in conjunction with the climatic and biologic forces have shaped the earth into its present form and are constantly reshaping and modifying it. The constructive forces of vulcanism and diastrophism and the activities of weathering and erosion in the formation of the surface features of the earth are considered. The interpretation of geologic and topographic maps, as well as field studies, are an important part of the course. Field trips are required. Prerequisite: World Geography.

Geo 206 Introduction to Climate *3 semester hours*

Meteorology is a study of the atmosphere. This course analyzes the laws and underlying principles of atmospheric changes. An opportunity is given for students to become familiar with common weather instruments, to read and interpret weather maps, to observe and record weather data, and discuss problems rising from the use of the atmosphere as a medium of travel and transportation. Prerequisite: World Geography. Spring semester of even years.

Geo 207 Geography of Europe *3 semester hours*

A course which aims to help students acquire an ability to look for, find, and apply the geographic relationships underlying land uses, dominant international problems, and boundary disputes, thus enabling students to obtain an unbiased understanding of the economic problems of Europe. The Soviet Union is not included in this course. Prerequisite: World Geography. Spring semester.

Geo 208 Geography of Latin America *3 semester hours*

A regional study is made of Middle and South America, emphasizing man's responses to environmental factors such as climate, landforms, resources and the like. Special emphasis is given to regional differences and similarities. Latin American relations with other nations, especially with the United States, are stressed. Prerequisite: World Geography. Fall semester.

Geo 209 The United States in its Global Relationships *3 semester hours*

This course deals with the changing economic patterns within the United States that are developing to meet the new economic and strategic situations in the rest of the world. The geography of the United States will be analyzed in its world relations with emphasis on our interdependence with the world of nations, both politically and economically. Prerequisite: World Geography.

Geo 210 Geographic Influences in American History *3 semester hours*

A study of the relationships of the natural geographic factors in the settlement, development and progress of the United States from the time of discovery to its present day position as a world power. Major emphasis is placed upon the United States, although parts of the course such as the study of World War II and our present worldwide interests and commitments of necessity focus attention on areas other than the U. S. Prerequisite: World Geography.

Geo 211 Map Appreciation and Interpretation *3 semester hours*

A course which aims to provide the student with an understanding of the properties of maps such as scale, projection, coordinates, legend, and other marginal information. Special emphasis will be directed toward the reading and interpretation of large-scale topographic maps. This includes the recognition of natural features and land uses. The course also includes an introduction to statistical maps showing amount, value, or density of distribution using dots, lines, and colors.

Geo 301 Introduction to Geology *3 semester hours*

A course dealing with landscapes in their relation to the structure of the earth's crust, and the work of earth forces and their effects on materials, structure, and physiography of the earth's surface features. Course work includes field work, study of rocks, minerals, and topographic maps. Field trips are required.

Geo 302 Climatology *3 semester hours*

A course primarily concerned with the climatic regions of the earth, and the limitations and advantages they offer for man's occupancy. The course is a valuable aid to students in world problems. Prerequisite: World Geography.

Geo 303 Cartography *3 semester hours*

A course designed primarily to enable the geography major to attain proficiency in the construction and use of maps, cartograms, and geographic diagrams. The history of map making with special emphasis on the modern techniques followed in the United States will be presented. Special emphasis will be placed upon the development of the special-purpose or thematic map as a tool in teaching and research. This emphasis requires proper instruction in the use of pens, lettering templates, pre-printed patterns and letters, and other techniques utilized in map construction.

Geo 304 Geography of Asia *3 semester hours*

This course starts with an over-view of Asia in regard to climate, topography, soils, people, and other such basic geographic factors. Emphasis is placed on major geographic regions of Asiatic U. S. S. R., Southwestern Asia, and India. Studies are made of the natural resources and their use, the peoples—their number and distribution, their cultural and recent cultural changes, strategic areas, and related political problems. Prerequisite: World Geography.

Geo 305 Geography of the Far East *3 semester hours*

A study of Japan, China, the Philippines, Southeastern Asia, and the East Indies and an intensive investigation of the natural factors and man's adjustment to them in the geographic, economic, and political regions of Eastern Asia. The geographic background needed in planning solutions for raising standards of living, for the wise use and restoration of natural resources, and the industrialization of countries is presented. Prerequisite: World Geography.

Geo 306 Geography of Africa *3 semester hours*

The study emphasizes the geographic factors that aid in a better understanding of the problems that face Africa today. Geographic aspects of past and present day history are discussed, as well as the aspects of race, religions, and tribal organizations. The climate, topography, agriculture and minerals of Africa are discussed as well as other important features related to geography. Prerequisite: World Geography.

Geo 307 Geography of the U.S.S.R. (Including Satellite Countries) *3 semester hours*

This course will include a study of both European and Asiatic U. S. S. R., with emphasis on the positive and negative factors in the geography of that country in relation to its strength and weaknesses as a major world power. Fall semester and summer sessions. Prerequisite: World Geography.

Geo 308 Trade and Transportation *3 semester hours*

A study of transportation routes, ports, railroad centers, air terminals and hinterlands. The concept that trade and transportation are important geographic elements will be developed in the course. These two elements are spatial variables by which regions can be delimited and their characteristics studied. Emphasis will be given to nations which organize themselves into economic blocs for the promotion of trade. Prerequisite: World Geography.

Geo 309 World Problems in Geography *3 semester hours*

A course considering some of the world problems which need a geographic background for understanding and solution. Attention is given to boundary questions, the value and control of colonies, fishery agreements, problems concerning commercial aviation, world trade, the feeding of the world, control and development of natural resources, the keeping of the peace, and similar topics. Prerequisite: World Geography.

Geo 310 Geography Field Study Methods *3 semester hours*

This is a basic field course designed to introduce the undergraduate student to methods and materials used in field research in geography. Study observations include those related to land use, urban geography, transportation, conservation of natural resources, etc. Observations are recorded on base maps and field notes are assembled into geographical reports. Field trips are required. Prerequisite: World Geography.

Geo 311 Teaching Geography in Secondary Schools *3 semester hours*

An intensive study of the modern techniques of teaching geography, geography materials, and current curricula in geography. Emphasis is placed upon the contribution of geography to the solving of national and world problems; the skills, habits, and the attitudes to be gained from geography courses in the junior and senior high schools which aid in the development of world citizenship, the courses suitable for such groups, and the new books available at this level. Spring semester.

Geo 312 Geography of Australia and Associated Islands *3 semester hours*

Emphasis is placed on the natural factors of climate, location, minerals and topography and their relationships to the numbers and distribution of the population. Special note is taken of the native and introduced flora and fauna found in these regions as well as the importance and effect of the growing industrialization of Australia. Farming, transportation and the geo-politics of this region are also discussed. Prerequisite: World Geography.

Geo 313 Geography of Population *3 semester hours*

A course designed to give the student a greater understanding of the regional variations in the distribution of man. Emphasis will be given to population numbers, past and present, to the demographic characteristics of the population, and to the migration of populations. An explanation of the spatial shapes of these population numbers and characteristics is included in the course. Spatial differences in population are related to spatial differences in non-demographic phenomena. Prerequisite: World Geography.

Geo 314 Urban and Regional Planning *3 semester hours*

This course examines the regional method of analysis as it applies to the problems of urban and regional planning. Since urbanism dominates western civilizations today, special emphasis is directed to city planning in terms of providing adequate transportation, housing, recreation, industry, and commerce. Integration of the natural resources and the human resources is demonstrated as the means to provide an orderly use of space by man. This integration involves the designing of new urban areas as well as redesigning older urban areas. Prerequisite: World Geography.

Geo 315 Geography Area Field Study *3 to 6 semester hours*

Field courses are arranged from time to time for travel and study in selected areas. These areas may include regions of the United States or foreign countries. Emphasis will include major geographical observations as outlined for Geography 310 and applied to the specific area of the course. Field study findings will be analyzed and compiled into term reports. Costs will vary with each course offering. Admission to course is by departmental approval.

Geo 316 Geography Seminar *3 semester hours*

This seminar is designed to acquaint geography majors with various aspects of geography not normally covered in the regular courses. The seminar will include the study of geographical literature, the development of modern geographical thought, methods and materials used in geographic research, and experience in geographical writing. Enrollment by departmental approval.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

DR. STURZEBECKER, *Chairman*

DR. COTTRELL, *Vice-Chairman*

Professors: Cochran, Twardowski, Youmans; Associate Professors: Coates, Davis, Donley, Goodwin, Heim, Kolacki, Long, Lorback, Margerum, Mitten, Norris, Reed, Yanisch; Assistant Professors: Black, Greenwood, Hopkins, Kyvallos, Lemcke, Powlus, Schaub, Steinmetz, Taylor, Trnka, Wilkinson, Yoder; Instructors: Cooper, Furlow, Giunta, Gros, Rokus, Schmitt; Lecturers: Emig, Wang.

REQUIRED COURSES FOR MAJOR STUDENTS

Women's Skills and Activities

HEd 111 Soccer, Speedball, and Basketball *3 hours 1 credit*

Foundations course stressing fundamental skills in basketball; individual skills, team tactics, and officiating techniques in soccer and speedball.

HEd 112 Gymnastic and Fundamental Exercises *3 hours 1 credit*

Apparatus for beginners, application of playground apparatus, stunts, tumbling, and pyramids for different age levels in elementary school.

HEd 121 Lacrosse and Track and Field *3 hours 1 credit*

Foundations course stressing fundamental skills in lacrosse and track and field.

HEd 122 Hockey and Volleyball *3 hours 1 credit*

Foundations course stressing fundamental skills in field hockey; individual skills, team tactics, and officiating techniques in volleyball.

HEd 131 Aquatic Fundamentals *3 hours 1 credit*

An analysis is made of the basic principles involved in swimming for all ages and ability levels. Emphasis is placed on safe practices as well as various methods of instruction and techniques. Class organization and the use of teaching devices are presented and explained. Application of the basic principles is made throughout the course during the progression of all skills.

The organization and administration of competitive swimming for women, with the modifications and changes necessary in the basic skills, are studied and analyzed.

HEd 132 Life Saving and Water Safety *3 hours 1 credit*

Continued emphasis is placed on the basic principles and skills in swimming. Safety and survival techniques are analyzed and learned. Life saving practices are emphasized and performed. Perfection of life saving skills and knowledge in swimming will lead to a Senior Life Saving Certificate.

Synchronized swimming, stunts, formations, and routines are also studied.

HEd 212 Advanced Gymnastics *3 hours 1 credit*

Advanced apparatus, tumbling, pyramids, rhythmical exercises.

HEd 221 Advanced Hockey, Lacrosse, Track and Field *3 hours 1 credit*

Advanced fundamentals and team tactics in hockey, lacrosse, and track and field.

HEd 222 Basketball and Tennis *3 hours 1 credit*

Advanced fundamentals and team tactics in basketball; fundamental skills in tennis.

HEd 322 Organization and Administration of Intramural and Interscholastic Athletics *2 hours 1 credit*

Principles of organization, administration, and supervision of intramural and secondary school athletic programs. Instruction to include facilities and equipment, routine procedures, budget and finance, legal liability, scheduling, and public relations.

HEd 323 Tennis, Softball; Basic Officiating of Hockey and Basketball *3 hours 1 credit*

Advanced strategy, individual skills, and officiating techniques in tennis. Techniques and team tactics in softball. Basic officiating techniques and practical experience in hockey and basketball.

HEd 324 Badminton, Golf, and Archery *3 hours 1 credit*

Development of individual skills in archery, golf, and badminton.

HEd 341 Modern Dance I *2 hours 1 credit*

This course is designed to prepare teachers in all elements of Modern Dance Activities that are employed in the Public School Program. The student is thoroughly grounded in fundamentals and teaching techniques of Modern Dance on the Elementary and Secondary levels. Opportunity for creative work is provided.

Men's Skills and Activities

HEd 111 Introduction to Formal Gymnasium Activities
3 hours 1 credit

An introductory course in fundamentals of marching, gymnastic exercises, games, weight and circuit training, rope climbing, Indian clubs, wands, etc.

HEd 112 Introduction to Tumbling and Vaulting
3 hours 1 credit

An introduction to the basics of tumbling and vaulting, including trampoline and springboard.

HEd 121 Individual Sports for Men *3 hours 1 credit*

Emphasis is placed on individual sports and recreational activities which include: tennis, golf, volleyball, softball, tetherball, table tennis, handball, winter sports.

HEd 122 Soccer and Wrestling *3 hours 1 credit*

A functional approach to the teaching of soccer and wrestling with emphasis on units of instruction for the elementary, junior high, and senior high levels. The course will include lead-up games, related activities, fundamental skills and techniques, drills, and basic experience in cohesive team effort. Stress will be placed on techniques, progression, and instructional problems.

HEd 131 Aquatic Fundamentals *3 hours 1 credit*

Diagnosis, study, and practice of the basic swimming strokes; introduction to diving and competitive swimming; study of speed swimming strokes, racing starts, turns, and relay races; floating and endurance swimming, aquatic games, races, stunts, and exhibitions; introduction to recreational aquatics and synchronized swimming formation.

HEd 132 Life Saving and Water Safety *3 hours 1 credit*

The philosophy of life saving and the responsibility of guarding the lives of bathers and swimmers; diagnosis, study, and practice of the life saving skills and techniques; discussion of floating supports, canoeing, boating, use of the paddle board, and planning and supervision of waterfront activities in recreation programs. Successful completion of this course will enable the student to receive senior life saving certification by the American Red Cross.

HEd 212 Introduction to Heavy Apparatus *3 hours 1 credit*

Fundamentals of movement on apparatus including rings, parallel bars, horizontal bars, side horse, and floor exercises.

HEd 221 Football and Track and Field *3 hours 1 credit*

A functional approach to the teaching of football and track and field with emphasis on units of instruction for the elementary, junior high, and secondary levels. The course will include lead-up games, related activities, fundamental skills and techniques, drills and basic experience in cohesive team effort. Stress will be placed on techniques, progression, and instructional problems.

HEd 222 Basketball and Baseball *3 hours 1 credit*

A functional approach to the teaching of basketball and baseball with emphasis on units of instruction for the elementary, junior high, and secondary levels. The course will include lead-up games, related activities, fundamental skills and techniques, drills and basic experience in cohesive team effort. Stress will be placed on techniques, progression, and instructional problems.

HEd 322 Organization and Administration of Intramural and Interscholastic Athletics *2 hours 1 credit*

Principles of organization, administration, and supervision of intramural and secondary school athletic programs. Instruction to include facilities and equipment, routine procedures, budget and finance, legal liability, scheduling, and public relations.

HEd 323 Advanced Basketball, Football, Soccer Track and Field *3 hours 1 credit*

HEd 324 Advanced Baseball, Golf and Tennis, Gymnastics, and Wrestling *3 hours 1 credit*

In the above courses (HEd 323 and HEd 324) each student will select two from the four offered. A nine week concentration of instruction in each selection would include a theoretical and practical approach to the teaching of these activities for advanced levels of performance, i.e. exhibitions, extramurals, and interschool sports and athletic events. The course will present the unique physiological requirements specific to each activity and techniques of development; review of fundamentals; refined drills; analysis of individual positions; game situations; strategy and tactics including development of offensive and defensive patterns and play. Rules, scoring, and officiating, and scouting procedures will also be included. When appropriate, brief internship programs of observation and participation as student assistants will be recommended in conjunction with HEd 463, Principles of Coaching.

REQUIRED GENERAL ACTIVITIES FOR NON MAJOR STUDENTS

For Elementary Majors and Music Majors

HEd 101 Coeducational Physical Activities I *2 hours 1 credit*

Introducing the student to an extensive program of recreational athletics having a high potential carry-over into post-college life. Included are archery, badminton, basketball, hockey, soccer, softball, speedball, swimming, tennis, and volleyball.

For Secondary Majors

HEd 104 Coeducational Physical Activities I *2 hours 1 credit*

Introducing the student to an extensive program of recreational athletics having a high potential carry-over into post-college life. Included are archery, badminton, basketball, hockey, soccer, softball, speedball, swimming, tennis, and volleyball.

HEd 204 Coeducational Physical Activities II *2 hours 1 credit*

Further experiences in individual sports will be offered including not only the learning of skills for personal enjoyment but also developing an elementary ability to help direct these in the modern secondary school recreational program. These include archery, badminton, bowling, golf, quoits, horseshoes, shuffleboard, tetherball, winter sports.

For Liberal Arts Majors

HEd 108 Introduction to Physical Activities *2 hours 1 credit*

A wide variety of experiences in athletic games contemporaneous to college age levels will initiate the program. An introduction to those activities which have carry-over value into adult life will be the center of interest. These include soccer, speedball, hockey, basketball, swimming, softball, and tennis.

HEd 218 Sports, Aquatics, and Dance *2 hours 1 credit*

Further experiences in individual sports will be offered including not only the learning of skills for personal enjoyment but also developing an interest in the cultural heritage of contemporary physical education and fitness programs. These include archery, badminton, bowling, golf, quoits, horseshoes, shuffleboard, tetherball and winter sports. Rhythmical activities including social, folk, and country dancing will also be offered.

Liberal Arts Elective

HEd 219 Introduction to Sports in the Renaissance Period *2 hours 1 credit*

Students will study the origins and development of fencing, crossbow, singlestick, riding, falconry, paume, diavolo, hunting, and other activities of the period. On an individual and group basis, opportunities will be provided for participation in certain ones.

HEALTH

Required Program for Major Students

HEd 151 Personal Hygiene *3 hours 3 credits*

This course is designed to help students acquire a background of scientific health knowledges and develop an interest in modern scientific health developments in the field of personal health; to establish high standards of personal living and develop desirable attitudes toward healthful living through the study of principles and practices of personal health.

HEd 153 Community Health *2 hours 2 credits*

This course will acquaint the student with a broad general understanding of the principles and problems of community health as they apply to everyday living. Included will be an overview of community health programs, their scope, organizations, functions, and services on the local, state, national, and international levels.

HEd 252 First Aid and Care and Prevention of Athletic Injuries *3 hours 2 credits*

This course will prepare a student to administer first aid in case of an accident or sudden illness in the normal school situation and also to exercise specific injury preventative measures and care for injured during sports activities.

HEd 253 The School Health Program *3 hours 2 credits*

This course is designed to help students understand the aspects of the total school health program: school health services (including health observation, appraisal, guidance, sources of referral, etc.), healthful school environment, and health instruction. Interrelationships and effective ways of promoting school-community cooperation and coordination will be included.

HEd 351 Human Development *3 hours 3 credits*

Designed to help students understand growth from birth through adolescence, this course includes methods of studying pupils, influences on growth, and characteristic development at various age levels. Implications for the health and physical education program are stressed throughout.

HEd 352 Methods and Materials in Health Education *3 hours 2 credits*

A comprehensive study of school health instruction. Content will be emphasized as to methods and materials necessary for effective health education. Course experiences include construction of lesson plans, units, survey and evaluation of textbooks, tradebooks, free materials, periodicals, experiments, audiovisual aids, and evaluative techniques, and teaching aids. Students will complete files of curriculum materials and instructional aids as a prerequisite to student teaching.

REQUIRED PROGRAM FOR NON MAJOR STUDENTS

HEd 150 Health (All Curricula) *2 hours 2 credits*

A course designed as an integrative experience in personal health education for the freshman student. The primary areas include: mental and emotional adjustment to the college environment, family relationships, factors influencing physiological health, and the college student as an intelligent appraiser of health practices and fads.

For Elementary Majors

HEd 350 Health for the Elementary Grades *3 hours 2 credits*

A course based upon the premise that health education is not a subject but rather a way of living. Special emphasis placed upon the development of sound principles and procedures in meeting the different needs of the child in relation to the school, home, and community. Elementary health courses of study will form the basic point from which each student will explore content and methods for making a sound total health education program. The interrelationship of health education with all fields in the modern elementary program will be a focal point of attention.

HEALTH ELECTIVES

Open to all Curricula

HEd 353 First Aid for Teachers *2 hours 2 credits*

A study of advanced first aid techniques and the methods and procedures for teaching first aid; problems of safety in home and school. Successful completion of this course may qualify the student for an instructor status.

HEd 354 Seminar in Health Education *3 hours 3 credits*

For seniors majoring in health and physical education

The seminar course is designed to give the undergraduate student further reinforcement of basic concepts, current approaches, present-day trends and problems in the field of health education, with special emphasis on readings, discussions, and projects.

HEd 356 Mental Hygiene *3 hours 3 credits*

The course offers the principles of mental hygiene and aspects of personality in terms of the description and explanations of human adjustment. Principles, theories, and practices are reviewed and applied to individual, school, and community health problems.

HEd 451 Community and School Health Education Workshop *3 hours 3 credits*

A study of common problems in the home, community, and school health education areas. A five-point program is as follows: to provide in-service training in health education; to stimulate and promote an effective follow-up program in health services; to coordinate the efforts of allied health agencies; to stimulate and promote interest in local health units; and to develop an awareness of the place of mental health in the total health program of the home-school-community.

DANCE

REQUIRED PROGRAM — Major Students

HEd 241 Elementary Rhythms and Folk Dancing *3 hours 1 credit*

A study of the place of dancing and rhythmical activities in the school physical education program with particular emphasis on clog, tap, and elementary folk dancing. The course includes a study of the fundamentals of movement, music and rhythm and their relationship to each other; child rhythms, and folk dances suitable for elementary school children; suggested teaching methods.

HEd 242 Social and Square Dancing *3 hours 1 credit*

Co-recreational activities will be emphasized in this course which includes square and country dancing, advanced folk and social dancing. In addition to the development of personal skills, the course also incorporates methods of teaching and source materials for dance programs.

HEd 341 Modern Dance I (Required for Major Women)
2 hours 1 credit

This course is designed to prepare teachers in all elements of Modern Dance Activities that are employed in the Public School Program. The student is thoroughly grounded in fundamentals and teaching techniques of Modern Dance on the Elementary and Secondary levels. Opportunity for creative work is provided.

REQUIRED PROGRAM

ELEMENTARY MAJORS

HEd 202 Dance Activities in the Elementary Program
2 hours 1 credit

The place of fundamental rhythms, creative rhythms, singing games, and folk dances on the elementary level will challenge the student. Personal skills in these areas will develop and each student will assume the leadership in directing these activities in class situations. The use of dancing activities for demonstrations and pageants will be studied.

SECONDARY MAJORS

HEd 205 Dance Activities in Secondary Schools
2 hours 1 credit

Rhythmical activities that are of great interest to secondary schools will be offered. These include social, folk, square, and country dancing. Emphasis will be placed upon both the development of individual skill and ability to help direct these activities as a feature of the recreational program in schools.

MUSIC MAJORS

HEd 107 Eurythmics I *2 hours 1 credit*

The development of an appreciation of rhythmic movement patterns through specific dance forms: Polka, Schottische, Waltz, Mazurka, Pavanne, Polonaise, Sarabande, Bouree, Gavotte, Minuet. Opportunities will be provided for the application of the principles of eurythmics in teaching music to children through both the planning and teaching of typical elementary school units; such as, Folk Festivals, Circuses, May Days, Indians, Transportation, Work and Occupations, Special Holidays. Some swimming activities are included.

HEd 207 Eurythmics II *2 hours 1 credit*

The realization of rhythm in bodily movement and the development of neuro-muscular responses to the perception of musical rhythms are bases for the course. The student will become familiar with the factors of timing, force, and space so as to increase both his skill in bodily movement and his appreciation of rhythm. Swimming activities are also included.

ELECTIVES IN DANCE

HEd 341 Modern Dance I *2 hours 1 credit*

This course is designed to prepare teachers in all elements of Modern Dance Activities that are employed in the Public School Program. The student is thoroughly grounded in fundamentals and teaching techniques of Modern Dance on the Elementary and Secondary levels. Opportunity for creative work is provided.

HEd 342 Modern Dance II *2 hours 2 credits*

This course is designed to further prepare teachers in all elements of Modern Dance Activities that are employed in the Public School Program. The student will be thoroughly grounded in the intermediate and advanced technique, choreography and rhythmic training involved in Modern Dance. Opportunity is provided for experience in organizing and participating in Dance Concerts.

HEd 343 Principles of Choreography *2 hours 2 credits*

The historical perspective of the choreographic art will be reviewed as an introduction. The principles of developing choreography in the several areas of dance will be related to practical work by each student in creative projects.

HEd 344 Dance in Theater Arts *2 hours 2 credits*

The nature and extent of the field of dance will be studied in its relation to the total development of the theater. Students will have opportunities to engage in contemporary presentations of dance forms in drama.

RECREATION

HEd 462 Principles of Recreation (Required for Major Students) *2 hours 2 credits*

Historical background of the present play movement; theoretical explanations of play; the need for play in modern life and its place in education and recreation; the fundamental principles and methods of recreation leadership.

RECREATION ELECTIVES

HEd 366 Organization and Administration of Recreation

3 hours 3 credits

Policies and procedures which are essential in the promulgation of recreation programs on local, state, and national levels. This includes visitation to and evaluations of recreational centers in operation. Students will be given opportunities to plan and administer recreational projects. Prerequisite: Principles of Recreation.

HEd 367 Arts and Crafts in Recreation

3 hours 3 credits

Theoretical and practical applications in the use of arts and crafts materials as a means of furnishing channels for recreative outlets for all age groups. Opportunities will be given to work in the various media customarily found in school, camp, and community recreation programs.

HEd 368 Music in Recreation

3 hours 3 credits

A study of the many phases of recreational music as an effective leisure time activity for all age groups in communities, camps, playgrounds, and recreational centers; an understanding of the functions of the recreation leader in the music phase of the recreation program.

Specific activities in which students will participate are as follows: community singing and conducting, rounds, contra songs, action songs, making stereoptican slides for group singing, playing simple instruments such as the tonette or song flute, making rhythm band instruments, playing in and conducting a rhythm band, producing musical puppet shows, simple operettas, setting up the organization for the advanced listening, singing, and playing program.

HEd 369 Dramatics in Recreation

3 hours 3 credits

The place of dramatic activities that meet recreational needs of all groups as either participants or spectators of the activities. Emphasis will be placed upon the appropriate plays and other dramatic media that fit all age levels in any community.

HEd 370 Camping and Outing

3 hours 3 credits

A program including both theory and practice in all the elements of camping and outing programs. The student will gain an insight into these activities from the viewpoints of the camper, the counselor, the supervisor, the specialist, and the director.

HEd 464 Supervised Recreation Leadership (Field Experience in Education) *6 hours 3 credits*

Students will have guided experiences in active leadership in the various recreational programs of our immediate area. A one-hour practicum will be held each week to discuss problems and principles of Recreational Leadership. (For further details see Parts 2. and 3. of section on Health and Physical Education Curriculum.)

EDUCATION FOR SAFE LIVING

HEd 481 Introduction to Safety Education *3 hours 3 credits*

A survey course in safety education. The philosophy, need, history, and psychology of accident prevention are studied. Emphasis is placed on the study of the total safety problems in school, industry, community, and traffic. Special emphasis is placed on the legal responsibilities of the teacher for maintaining a safe environment and on his contribution to civil defense.

HEd 482 Driver Education and Training *3 hours 3 credits*

Designed for prospective teachers of Driver Education in the secondary school. Instruction is given in the techniques of effective teaching in the automobile as well as the opportunity to actually teach a non-driver how to drive. The method and technique of assessing a beginning driver's ability to operate a motor vehicle safely are studied. Some of these are driving skill tests, psycho-physical tests, and personality inventories. Students will collect and study the necessary materials to carry on a Driver Education program in the secondary school and apply techniques of evaluating this material. Finally, a thorough examination is made of the various types of automobile insurance available and the existing traffic laws of the Commonwealth.

HEd 483 Psychology of Accident Prevention *3 hours 3 credits*

A study of the underlying psychological causes of accidents which includes the role of unconscious determinism, poor habits and attitude formation, poor individual adjustment, inappropriate motivation, and personality defects. Attention is also given to the effect of stirred-up emotional states and one's ability to live safely.

HEd 484 Method and Materials of Safety Education *3 hours 3 credits*

A comprehensive study of the total safety program with special consideration for the area of special interest to the student. The major emphasis is on the teaching of safety, including the latest methods and materials, the instruction of lesson plans, units and other teaching aids. Each student will get an opportunity for presentation of a practice lesson for evaluation and critique.

HEd 485 Organization and Supervision in Safety Education
3 hours 3 credits

History, philosophy, and basic principles of organization and administration of safety education. Organization and supervision of safety education in public schools, including program planning. Legal aspects in the administration of school safety. Prerequisite: Introduction to Safety Education.

THEORY AND PRACTICE OF ELEMENTARY PHYSICAL EDUCATION

(Supporting courses in Aquatics, Dance and Athletics are described in adjoining areas.)

MAJOR STUDENTS

HEd 211 Preparation for Teaching Elementary Physical Education *3 hours 1 credit*

Preparation for teaching of elementary physical education: singing games, story plays, self testing activities, teaching of elementary games: a unit on playground apparatus and specific stunts on apparatus and tumbling. Suitable methods for teaching all these things at the elementary level are presented.

HEd 362 Physical Education for the Elementary Grades
7 hours 3 credits

The students will be assigned to elementary schools in the service area for observation and teaching in physical education. This will involve all the games and relays, self testing activities, rhythms and dances suitable for the growth and developmental needs of the elementary school child. A weekly seminar will be held to discuss the theory and problems involved in elementary physical education.

ELEMENTARY MAJORS

HEd 201 Practice and Theory in Elementary Physical Education *2 hours 1 credit*

The basic organization of the physical education program in the modern elementary schools is reviewed. Basic principles in teaching children how to play simple games and relays and those other recreational activities that are associated with this age group. Opportunities for lesson planning and teaching are provided for in a practical manner. The ability to plan for and direct the physical education period in the elementary school program will be a main objective for each student.

ELECTIVES IN ELEMENTARY PHYSICAL EDUCATION

HEd 465 Elementary Physical Education Curriculum *3 hours 3 credits*

Students will learn to construct and evaluate the curriculum in elementary physical education. The curriculum will be analyzed grade by grade for suitable game, rhythmic and self testing activities. The growth and developmental needs and interests of the children will be considered, along with the progression and continuity through the grades.

THEORY AND APPLIED PHYSICAL EDUCATION

REQUIRED FOR HEALTH AND PHYSICAL EDUCATION MAJORS

HEd 361 Tests, Measurements and Statistics in Health and Physical Education *3 hours 3 credits*

Experience in selecting, administering, scoring and evaluating tests of physical fitness, general motor ability, motor educability, and skill and knowledge in sports.

HEd 364 Organization and Administration of Physical Education *3 hours 2 credits*

Principles of program building in physical education curricular and extra-curricular; facilities and equipment, routine procedures, budget and finance, legal liability and public relations. Prerequisite: Tests, Measurements and Statistics in Health and Physical Education.

HEd 365 Physical Activities for Atypical Children I *2 hours 2 credits*

An introductory course in Adapted Physical Education that is devoted to the exploration of common childhood disabilities. Emphasis will be placed on those problems that are of a chronic nature and their implications for the physical educator. The elements of administration of the adapted program will be discussed.

HEd 455 Applied Physiology *2 hours 2 credits*

A functional course applying physiological principles of neuromuscular activity to the frame of reference of the physical educator. A clinical approach will be taken to acquaint the student with basic aspects of theories of neuromuscular coordination and motor learning, strength development, endurance, and the analysis of human motion. Prerequisites: Anatomy and Physiology.

HEd 461 Physical Activities for Atypical Children II
2 hours 2 credits

A course concerned with the modern concepts of the therapeutic exercise phase of physical education in the prevention and correction of common handicapping conditions.

HEd 463 Principles of Coaching *2 hours 2 credits*

Principles and methods of coaching sports in the school program; problems of the coach with regard to psychology of handling a team, training, motivation and schedule planning; bridging the gap between knowing how to play and the functions of coaching.

THEORY AND PRACTICE OF SECONDARY SCHOOL PHYSICAL EDUCATION

(Supporting courses in Aquatics, Dance, Athletics and Theory are described in adjoining areas.)

HEd 311 Preparation for Teaching Secondary Physical Education *3 hours 1 credit*

Preparation for teaching secondary physical education programs. Class practice teaching of games, athletics, sports, and gymnastic-type activities. Development of activity lesson plans suitable for grades 7-12.

HEd 471 Student Teaching in the Secondary School and Direction of Student Activities
30 hours 12 credits

Observation and participation in teaching situations in the junior and senior high school under qualified cooperating teachers. Professional conferences and visitations are provided throughout this teaching semester which may be taken in the fall or spring term of the academic year depending upon administrative planning.

HEd 472 Professional Practicum Including School Law
2 hours 1 credit

Accompanying student teaching an undergraduate seminar will be required. This will include a study of problems met in the teaching semester and review of those sections of the Pennsylvania School Law pertinent to teaching activities in the major field.

HEd 261 History and Philosophy of Physical Education
2 hours 2 credits

A study of the changing concepts of physical education of many past ages and cultures so as to provide a foundation for the philosophy, principles, curriculum, organization and administration, methods, and trends of modern physical education.

ELECTIVES IN PHYSICAL EDUCATION

HEd 312 Special Events in Physical Education *2 hours 1 credit*

Planning and executing special events such as May Days, Festivals, Sports Days, Assembly Programs, Field Days.

HEd 331 Aquatic Leadership *3 hours 2 credits*

Leadership procedures in all aquatic activities found in the public school program and in school camps. The student will have an opportunity to qualify as a waterfront safety instructor and will study problems in organization and administration of aquatic programs. There will be a complete analysis of all swimming strokes and life saving techniques.

HEd 375 Officiating Women's Sports *3 hours 2 credits*

This course is designed to include the ethics of sport officiating, to practice techniques of officiating at high school and college games, and to master the rules of various sports through application and understanding. The student may gain recognition of competency by receiving an official's rating in at least one sport. A basic knowledge of officiating can result in the definite improvement of a player and a coach.

HEd 377 Theories and Practices of Training and Conditioning *2 hours 2 credits*

A course designed to acquaint the student with current theories and practices of physical conditioning and athletic training. The various formal systems of conditioning the body and techniques of management of athletic injuries will be discussed, analyzed and practiced.

HEd 378 Facilities and Equipment in Health and Physical Education *2 hours 2 credits*

This course is designed to familiarize the student with the procedures and practices involved in (1) formulating planning principles and planning guides, (2) understanding Department of Public Instruction's regulations governing planning for public school building facilities, and (3) practical and functional design of indoor and outdoor areas and facilities.

HEd 390 Orthopedic Disabilities of Childhood *2 hours 2 credits*

A comprehensive study of the common disabilities of childhood, especially those deviations that are chronic in character. Major emphasis will be placed on developing an understanding of the medical aspects and problems of rehabilitation of the physically disabled.

HEd 391 Psychology of the Physically Handicapped
3 hours 3 credits

A study of the psychology of physique and physical disability and the related cultural implications. Students will be given an opportunity to make personal exploration into the psychodynamics of disability.

HEd 392 Introduction To Physical Therapy *2 hours 2 credits*

An introductory course for men and women students anticipating matriculation in a post-graduate school of Physical Therapy. Major emphasis will be placed on correlating selected basic biological and physical science information relative to the practice of Physical Therapy. Prerequisite: Anatomy and Physiology I and II, Applied Physiology and Physics.

HEd 355 Kinesiology *2 hours 2 credits*

The purpose of this course is to give the student an understanding of the basic fundamentals of movement-articulations, muscular actions, and the analysis of the related principles of mechanics.

MATHEMATICS DEPARTMENT

DR. FILANO, *Chairman*

Associate Professors: Branton, Cohoes, Milliman, Montemuro, Weiss; Assistant Professors: Childs, Fisher, Love, Mandelbaum, Stanley, Verno, Wiener.

Mat 101 Introduction to College Mathematics I
3 semester hours

A course emphasizing fundamental mathematical ideas and methods of mathematical thinking. Includes reasoning in mathematics, sets, logic. number systems and the structure of mathematical systems. Both semesters and summer session.

Mat 102 Introduction to College Mathematics II
3 semester hours

A continuation of Mat 101. Topics included for study are selected from functions, probability, equations, limits, geometry, and trigonometry. Prerequisite: Mat 101. Both semesters.

Mat 105 College Algebra and Trigonometry
3 semester hours

A unified course in algebra and trigonometry. Included for study are absolute value, inequalities, functions, and equations and identities in both fields. Prerequisite: Three years of high school mathematics. Both semesters and summer session.

Mat 106 Foundations of Mathematics *3 semester hours*

A course in fundamental concepts of mathematics. Set theory, logic, and the structure of the number system are emphasized. Also included for study are mathematical induction, determinants, and selected topics from the theory of equations. Prerequisite: Mat 105 or 4 years of high school mathematics. Spring semester and summer session.

Mat 141 Analytic Geometry and Calculus I
3 semester hours

An introduction to the fundamental ideas of calculus and analytic geometry. Included for study are limits, continuity, derivatives of algebraic functions, application of derivatives, an introduction to integration, and elements of analytic geometry. Prerequisite: Mat 105 or 4 years of high school mathematics. Both semesters and summer session.

Mat 142 Analytic Geometry and Calculus II
3 semester hours

A continuation of Mat 141. Emphasis is placed on methods of integration, applications of integration, transcendental functions, and plane analytic geometry. Prerequisite: Mat 141. Both semesters and summer session.

Mat 211 Linear Algebra *3 semester hours*

An introduction to linear algebra. The course includes matrices and determinants, systems of linear equations, vectors, and linear transformations. Prerequisite or concurrent: Mat 142. Spring semester.

Mat 231 Modern Geometry I *3 semester hours*

A course for the extension of competency in geometry. Included for study are historical background, axiomatic systems, theorems of Ceva, Menelaus, cross-ratio, elementary transformations, and Euclidean constructions. Prerequisite: Mat 142. Fall semester.

Mat 232 Modern Geometry II *3 semester hours*

A continuation of Mat 231 emphasizing the foundations of geometry. Projective, hyperbolic, and other non-Euclidean geometries are among the topics selected for study. Prerequisite: Mat 231. Spring semester.

Mat 241 Analytic Geometry and Calculus III

3 semester hours

A continuation of Mat 142. This course places emphasis on a study of polar coordinates, parametric equations, solid analytic geometry and vectors, and additional topics in differential and integral calculus. Prerequisite: Mat 142. Both semesters and summer session.

Mat 242 Analytic Geometry and Calculus IV

3 semester hours

A continuation of Mat 241. Included for study are partial derivatives, multiple integrals, infinite series, expansion of functions, and additional topics in analytic geometry. Prerequisite: Mat 241. Both semesters.

Mat 303 Statistics *3 semester hours*

A study of the presentation and analysis of numerical data. Includes graphs, frequency distributions, measures of central tendency and dispersion, correlation, probability, regression and prediction, normal curve, and reliability of statistical measures. This is a course for non-mathematics majors. Prerequisite: 2 years of high school mathematics. Spring semester.

Mat 343 Differential Equations *3 semester hours*

A course in the theory, solution, and application of ordinary differential equations. Included for study are differential equations of the first order and first degree, linear differential equations with constant coefficients, equations of higher order and degree, Laplace transforms, solution by series, and numerical solutions. Prerequisite: Mat 242. Both semesters.

Mat 350 Teaching of Mathematics in Secondary Schools

3 semester hours

A course in modern techniques of teaching mathematics. Includes the aims of mathematics instruction, motivation, methods of instruction and evaluation in mathematics. Emphasis is placed on the new mathematics and on modern courses of study. Opportunities are provided for students to plan and present lessons in mathematics and to observe mathematics classes in secondary schools. Prerequisite: Mat 241. Both semesters.

Mat 351 Teaching of Mathematics in Elementary Schools *3 semester hours*

A course designed to acquaint students with modern methods of teaching mathematics and with the content of the elementary mathematics curriculum. Emphasizes the teaching of concepts, stresses the construction and use of learning aids, considers syllabi and texts, provides opportunities for students to prepare and present lessons in mathematics and to observe mathematics classes in elementary schools. Both semesters and summer session.

Mat 401 History of Mathematics *3 semester hours*

A study of the growth of mathematics and the men who contributed to it. Included for study are number systems, Babylonian and Egyptian mathematics, Greek mathematics, Hindu and Arabian mathematics, European mathematics, and modern mathematics. Prerequisite: Mat 241. Spring semester.

Mat 405 Special Topics in Mathematics *3 semester hours*

The content of this course is variable and will be announced at the time of offering.

Mat 411 Modern Algebra I *3 semester hours*

A course in the foundations of algebra. The postulational approach to algebraic systems is emphasized. Cardinality, mappings and relations are introduced; groups, rings, integral domains, and fields are among the general algebraic systems studied. Prerequisite: Mat 241. Fall semester.

Mat 412 Modern Algebra II *3 semester hours*

A continuation of Mat 411. Emphasis is placed on a more detailed study of the properties of the algebraic systems introduced in Modern Algebra I. Prerequisite: Mat 411. Spring semester.

Mat 414 Theory of Numbers *3 semester hours*

A study of the properties of the integers. Among the topics included for study are congruences, primes, factorization, and diophantine equations. Prerequisite: Mat 242.

Mat 421 Mathematical Statistics I *3 semester hours*

A course in probability and an introduction to statistics. Included for study are fundamentals of probability, random variables, expectation, and discrete and continuous distributions, including the normal, binomial, and Poisson. Prerequisite: Mat 242. Both semesters.

Mat 422 Mathematical Statistics II *3 semester hours*

A continuation of Mat 421 with an emphasis placed on statistical measures and their application. Included for study are the law of large numbers, central limit theorem, estimation, testing of hypotheses, decision making, correlation, regression, and other distributions. Prerequisite: Mat 421. Spring semester.

Mat 425 Numerical Analysis *3 semester hours*

A study of numerical methods for the approximate solution of applied problems. Among the topics included for study are interpolation theory, curve fitting, approximate integration, and the numerical solution of differential equations. Prerequisite: Mat 343.

Mat 432 Topology *3 semester hours*

An introductory course in the basic notions of point set topology, elementary set theory, topological spaces, connectedness, compactness, metrizability, completeness, and transformations are among the topics included for study. Prerequisite: Mat 242.

Mat 441 Advanced Calculus I *3 semester hours*

A course in the foundations of real analysis. Includes a rigorous treatment of limits, continuity, derivatives, sequences, and Riemann integrals. Prerequisite: Mat 242. Both semesters.

Mat 442 Advanced Calculus II *3 semester hours*

A continuation of Mat 441. Included for study are functions of several variables, partial differentiation, implicit function theorems, transformations, multiple integrals and other selected topics. Prerequisite: Mat 441. Spring semester.

Mat 445 Complex Variable *3 semester hours*

An introduction to functions of a complex variable. Included for study are analytic functions, mappings, differentiation and integration, power series, and conformal mappings. Prerequisite: Mat 242.

MUSIC DEPARTMENT

DR. MITCHELL, *Chairman*

DR. ANTONOWICH, *Vice-Chairman*

Professors: Cheesman, Johns, Schick, Wilkinson, Wright; Associate Professors: Carson, Clarke, Gangemi, Gottlieb, Parris, Pflieger, Read, Sheppard, Sprenkle, Sweet, Veleta, Whitten, Williams; Assistant Professors: Barrow, Beatty, Boerlin, Brown, Carl, Conaway, Hales, Krueger, Markow, Middleton, Vandever; Instructors: Breuninger, Kelly; Lecturer: Zimmerman.

THEORY

Wright, *Chairman;* Gangemi, Middleton, Read, Schick, Wilkinson.

The theory courses aim to develop the techniques required for a comprehensive understanding of music literature and the background necessary for intelligent interpretation, arranging, and composition. These techniques include: the harmonization of melodies; analysis of form; creative work—at the keyboard and written; aural recognition of the harmonic vocabulary being studied; and the application to the keyboard of this vocabulary.

Mus 100 Foundations of Music *3 semester hours*

See course description under MUSIC: Humanities.

Mus 110 Theory of Music *3 semester hours*

This course includes the study of sound and the use of such related mathematical skills as first degree equations, ratios, and interferences of periodicities. Aural recognition of the diatonic triads and their inversions is stressed as well as the development of part-writing skills. Melodic, rhythmic, and harmonic dictation is included. Prerequisite: Mus 100. Both semesters and summer.

Mus 201 Theory of Music *3 semester hours*

A continuation of the development of basic skills presented in the preceding course, and introducing the study of modulation and nonharmonic tones. Prerequisite: Mus 110. Both semesters and summer.

Mus 202 Theory of Music *3 semester hours*

In this course the student is given additional practice in handling the materials of Theory of Music 110 and 201. Seventh chords and chromatic alterations are introduced. Prerequisite: Mus 201. Both semesters.

Mus 301 Theory of Music *2 semester hours*

This course augments the student's harmonic vocabulary with a study of modulation to remote keys while developing the material of Theory of Music 202. Special attention is placed upon arrangement of compositions for voices and piano. All the techniques acquired in previous courses will be further developed. Creative application of materials is emphasized. Prerequisite: Mus 202. Both semesters.

Mus 211 Sight-Singing I *3 semester hours*

A study devoted to developing the specific skill of singing at sight. Emphasis rests upon coordination of the visual, aural, and theoretical aspects of the process. Extensive drill in individual and part-singing is directed toward quick recognition of appropriate tonal and rhythmic problems and the ability to reproduce them vocally. Prerequisite: Mus 100. Both semesters and summer session.

Mus 212 Sight-Singing II *2 semester hours*

Increased facility in reading is developed through the use of material of advanced difficulty involving chromatic alterations, more remote modulations and intricate rhythms. Prerequisite: Mus 211. Both semesters.

Mus 233 Basic Physical Science (Musical Acoustics) *3 semester hours*

A special course in musical acoustics arranged for students in the Music Education Curriculum to give them an understanding of the nature of sound and the basic principles of production and transmission of sound with their applications to musical instruments. Further consideration is given to the physical basis of harmony and scales, hearing, the acoustics of concert halls, and the recording and reproduction of sound. Both semesters.

Mus 321 Counterpoint *2 semester hours*

A course in the contrapuntal techniques of tonal music. The writing of inventions through four parts will be used to develop skill in motive development. Prerequisite: Mus 202. Both semesters.

Mus 322 Orchestration *2 semester hours*

A course including the techniques of the instruments of the orchestra and band and presenting the principles of instrumentation in theory and practice. Special emphasis is given to arranging for school orchestras and bands. Prerequisite: Mus 202. Both semesters.

Mus 323 Composition *2 semester hours*

A course designed to give the advanced student more intensive experience in creative work. Although no definite idiom is prescribed, the use of contemporary techniques is encouraged. The work done in this course will be written for various mediums. Each student is offered guidance and aid in writing compositions in the forms, styles, and mediums best suited to his own special capabilities and needs. Prerequisite: Mus 202. Spring semester.

MUSIC EDUCATION and STUDENT TEACHING

Antonowich, *Chairman;* Beatty, Brown, Pflieger, Vandever, and Staff.

Mus 351 Elementary Music Methods (Human Development)

3 semester hours

A course dealing with the human growth and development of children in the elementary grades. The psychological aspects of creating desirable attitudes in children are stressed. Emphasis is placed upon the potent influence which music has upon the personal, emotional, and social development of the child. Included in assignments are the development of the child's voice, his physical responses, music reading skills, and individual growth through creative musical activities. Particular emphasis is placed upon the selection and analysis of materials and evaluative techniques. Both semesters.

Mus 311 Secondary Music Methods

2 semester hours

A study of the choral and general music program of the secondary public schools. Included in assignments and discussions are: the development of good human relations involving the teacher, the students, the faculty, and the administration; the organization, procedure, problems and materials of vocal music classes, covering voice classification, the changed and changing voices, voice classes, and choral organizations; special classes—the gifted and the retarded child; public performances; the school assembly; music appreciation classes; scheduling; requisitioning supplies and equipment; and school-community relationships. Special attention is given to the study of skills in teaching the general music classes. Particular emphasis is placed upon the selection and analysis of materials and evaluative techniques. Directed observations are included. Both semesters.

Mus 312 Instrumental Methods

2 semester hours

Fundamentals underlying the development of instrumental programs in the public schools. A variety of current practices and problems are investigated and considered with the viewpoint that no one type of organization will serve the needs of all communities and schools. Included are: background information on instruments of the orchestra and band; transposition, fingering, etc.; consideration of problems of organization and administration; discussion, analysis and demonstration of teaching techniques and procedures; examination and evaluation of materials. Both semesters.

Note: Mus 351 (Elementary Music Methods), Mus 311 (Secondary Music Methods) and Mus 312 (Instrumental Methods) are all presented to students in the Music Education Curriculum in the same semester of the junior year. They are so scheduled to permit regular and ample amounts of observation of the teaching of music in public schools and to correlate the course content with such observation. Thus, the student receives a practical introduction to the teaching of music in the public schools and undergoes a gradual induction into teaching responsibilities leading up to the student teaching semester.

Mus 324 Choral Materials and Practices *2 semester hours*

The course is designed to acquaint the student with a vast amount of choral music suitable for school use through actual analysis. Program building and other practical phases of presenting the chorus in performances are studied. Spring semester.

Mus 325 Piano Methods (Class) *2 semester hours*

A course providing for the training of piano teachers and supervisors for the organization and teaching of piano classes in the public schools. Suitable teaching material including the leading system of class piano instruction will be examined and discussed. Demonstrations and student teaching are included. Spring semester.

Mus 326 Instrumental Techniques and Materials *2 semester hours*

The course is designed for those juniors and seniors who desire to specialize in instrumental music by expanding their knowledge of the instruments and the organization and administration of an instrumental department; modern materials for instrumental groups are studied and evaluated; rehearsal procedures; minor repairs to instruments; competitions and festivals in Pennsylvania; program building with special emphasis on marching band procedures. Both semesters.

Mus 327 Teaching Music Appreciation in the Elementary Grades *3 semester hours*

A course designed to enrich the music program throughout the grades. Suitable and available materials will be suggested from which each member of the class will be expected to organize a unit of work for a specific grade. The subject of these units will be decided by the needs of the class itself. Throughout the course an attempt will be made to provide variety of approach and to present the subject so as to conform to the child's mental, physical, and psychological development. Summer session only.

Mus 402 Seminar in Piano Teaching and Teaching Materials *3 semester hours*

A seminar giving in-service music teachers and supervisors the opportunity for class study of outstanding examples of the piano literature. The role and integration of the piano into the public school program along with suitable teaching materials for class and private study will be analyzed and used in demonstrations and student teaching. Summer session only.

Mus 421 Student Teaching and Direction of Student Activities *12 semester hours*

Observation and participation in teaching situations ranging from the primary grades through senior high school, vocal and instrumental music, in conjunction with qualified cooperating teachers. Professional conferences and visitations are an integral part of the experience.

HUMANITIES

Johns, *Chairman;* Clarke, Parris, and Staff.

Mus 100 Foundations of Music *3 semester hours*

Relates the technical aspects of music to the social and cultural currents of Western Music. The historical approach to technical mastery is presented here in a degree which is beyond the province of courses in History, Literature, and Appreciation of Music. Pitch and rhythm, its representation through the centuries to the present age, and the development of basic skills in sight singing and dictation are included. Both semesters.

Mus 220 Fine Arts *3 semester hours*

This is a course designed to give the student a stimulating background in the history and appreciation of music from the Classical Period through the Contemporary Period. The objective of the course is to provide a humanistic approach to the Art of Music by relating it to its contemporary arts and the societies in which it develops. The course provides further for a study of the major composers and their contributions to the literature of music. Stress is placed upon familiarity with the forms in music through analysis and comparison. To this end, representative compositions are heard and analyzed through recordings and other audible means. Both semesters and summer session.

Mus 250 History of Music I *3 semester hours*

This course is basically a survey of the important movements in the History of Music from Primitive Times through the Baroque Period. It involves a study of the traditions of primitive societies and ancient civilizations, the development of music in the Christian Church, the contributions of the Middle Ages, and the developments in music through the Renaissance and the Baroque periods. Stress is placed upon the music of the 17th and 18th centuries. Where practical, representative compositions are heard and analyzed through available recordings. Both semesters and summer session.

Mus 310 History of Music II *3 semester hours*

This course is in essence a continuation of the course History of Music I, although it need not necessarily be taken in order. It deals with a chronological study of the development in European and, to some extent, American music dating from the years after 1750 to the present era. It involves a study of the Classical, Romantic, and Twentieth Century movements in the field of music and stresses a knowledge of both vocal and instrumental forms. As with the earlier course, audio material is used to achieve the objectives of knowledge and understanding.

Mus 320 American Music *2 semester hours*

A course designed to trace the evolution of national style of composition from the earliest known American composers to the present day, and to acquaint the student with representative works of outstanding American composers. American music in our cultural heritage is analyzed and listened to with special regard for the amount of influence such things as jazz, impressionism, nationalities, and economics have had upon it. Spring semester.

Mus 328 Aesthetics and Music Criticism *2 semester hours*

A discussion of the nature of aesthetic experience and various problems in the philosophy of art, past and present; principles of criticism related to music and its performance.

Mus 410 Literature of the Musical Theater *3 semester hours*

The literature of the musical theater from the singspiel to the Broadway musical, with emphasis on the changes in style from the operetta to the Broadway musical.

Mus 412 Musico-Dramatic Production *2 or 3 semester hours*

An elementary study of the arts and crafts required in a musical production—including coaching, set designing and construction, stage movement, choreography, and costuming.

APPLIED MUSIC

Applied Music studied in this curriculum serves two purposes: that of developing the musicianship of the individual student; and that of providing the prospective teacher with the knowledge and techniques of various musical media needed for conducting an effective music program in the public schools. The program is carried out by means of individual and class instruction, according to the needs of the student. Opportunity is given for ensemble and for solo appearances in recitals and with college organizations.

Advanced standing in private study may be achieved by students after the freshman year, upon successfully passing certain tests. Extra credit will be given to students in the advanced standing classification.

VOICE FACULTY

Cheesman, *Chairman;* Brown, Conaway, Kelly, Krueger, Markow, Sheppard, Sweet, Williams.

Mus 001-006 Voice *1 semester hour*

Six semesters of private vocal study are required of all students except students whose major area of performance is instrumental. Four semesters of vocal study are required of instrumental majors.

Mus 101-108 Advanced Voice *1 semester hour*

Eight semesters of private voice study are required of all students whose major area of performance is voice.

The study and application of the physiological and psychological principles of voice production and diction. The material used ranges from rote songs to classic and modern song literature, according to individual ability.

Mus 109-114 Advanced Voice *1 semester hour*

For students in this advanced study of voice who have completed by advance standing examination Mus 101 - 108.

PIANO AND ORGAN FACULTY:

Carl, *Chairman;* Beatty, Gangemi, Gottlieb, Hales, Mitchell, Parris, Schick, Sprenkle, Veleta, Whitten, Wilkinson.

Mus 011-016 Piano *1 semester hour*

Six semesters of private piano study are required of all music education students.

Mus 111-118 Advanced Piano *1 semester hour*

Eight semesters of private piano study are required of all students whose major area of performance is piano.

Each student receives one-half hour instruction in piano per week. At the end of each semester students are expected to meet minimum requirements in sight-reading, technique, and general musicianship, as determined by examinations before the piano faculty. The study of the piano includes keyboard harmony in the free piano style.

Mus 119-124 Advanced Piano *1 semester hour*

For students in this advanced study of piano who have completed by advanced standing examination Mus 111 - 118.

Mus 019 Organ Class *½ semester hour*

Designed to familiarize the student with some of the problems of service playing. Study of fundamental pedal techniques, hymn playing, and simple anthem accompaniments will be emphasized. Available to piano majors or by permission of the instructor.

Mus 076-080 Organ *1 semester hour*

Designed to acquaint the student with the fundamental techniques of the pipe organ and with some of the preludes, postludes, and voluntaries desirable in service playing. A practical course for piano majors who will continue with piano as the applied music major.

Mus 151-158 Advanced Organ *1 semester hour*

Individual instruction in pipe organ is offered to familiarize the student with the literature of the instrument and to develop a playing technique. (For a limited number of students in the music education curriculum who have met the piano and keyboard requirements.)

Mus 159-164 Advanced Organ *1 semester hour*

For students in this advanced study of organ who have completed by advanced standing examination Mus 151 - 158.

INSTRUMENTAL FACULTY:

Carson, *Chairman;* Barrow, Boerlin, Breuninger, Clarke, Johns, Middleton, Read.

Mus 021-022 Violin *1 semester hour*

Two semesters of class instruction in violin, two hours per week, are required of all music education students. Tone production, fingering, and technique are stressed.

Mus 121-128 Advanced Strings *1 semester hour*

A minimum of four semesters of private study is required of all students whose major performing area is string instruments. Repertoire and public performance are stressed.

Mus 129-134 Advanced Strings *1 semester hour*

For students in this advanced study of a string instrument who have completed by advanced standing examination Mus 121 - 128.

Mus 221-228 String Ensemble Class *½ semester hour*

The String Ensemble Class is devoted to the study and performance of standard chamber music compositions. Depending upon representative instruments, the class is organized in the form of quartets, trios, etc. Membership is dependent upon ability to perform and is subject to audition.

Mus 031-032 Clarinet *½ semester hour*

Two semesters of class clarinet, one hour per week, are required of all music education students. Tone production, embouchure, fingering, and technique are stressed.

Mus 131-138 Advanced Woodwinds *1 semester hour*

A minimum of four semesters of private study is required of all students whose major performing area is woodwind instruments. Repertoire and public performance are stressed.

Mus 139-144 Advanced Woodwinds *1 semester hour*

For students in this advanced study of a woodwind instrument who have completed by advanced standing examination Mus 131 - 138.

Mus 231-238 Woodwind Ensemble Class *½ semester hour*

Practice and performance of selected medium to difficult woodwind ensemble literature, from trios to large ensembles, according to instrumentation and performance level of the class.

Mus 041-042 Trumpet *½ semester hour*

Two semesters of class trumpet, one hour per week, are required of all students.

Mus 141-148 Advanced Brasses *1 semester hour*

A minimum of four semesters of private study is required of all students whose major performing area is brass instruments. Repertoire and public performance are stressed.

Mus 149-154 Advanced Brasses *1 semester hour*

For students in this advanced study of a brass instrument who have completed by advanced standing examination Mus 141 - 148.

Mus 241-248 Brass Ensemble Class *½ semester hour*

The Brass Ensemble will consist of select brass and percussion players who are selected by audition. The ensemble will perform concert repertoire music dating from the earliest to contemporary brass music. The Brass Ensemble Class will be offered in the second semester of each school year. It will be open, by audition, to students of any curriculum who can qualify. Concert performance is required.

Mus 051 Percussion *½ semester hour*

One semester of percussion is required of all music education students.

Mus 052-053 Instruments (Elective) *½ semester hour*

After having met the instrumental requirements in Violin, Clarinet, and Trumpet, the following instruments are elective through class instruction: viola, cello, bass, flute, oboe, bassoon, horn, trombone, baritone, tuba, percussion. For those advanced students who are interested in small ensemble groups in woodwinds, brass, or strings, opportunity is given to survey literature for such ensembles and to study ensemble style by participation.

Mus 071-075 Orchestra (Elementary) *⅓ semester hour*

A minimum of two semester hours of orchestra is required of all music education students.

Students review and perform orchestra music of first, second, and third grade difficulty, suitable for use with school and community orchestras.

Mus 171-178 Symphony Orchestra *½ semester hour*

Eight semesters are required for all students who qualify for the Symphony Orchestra.

The Symphony Orchestra prepares music for its major programs from the standard symphonic repertoire and also accompaniments for the Student Recitals which feature vocal and instrumental majors capable of performing with full orchestra. Almost half of the time each year is spent on sight-reading as much standard symphonic literature as possible. Membership in the orchestra is determined by audition.

Mus 271-278 Little Symphony Orchestra (Sinfonietta) *½ semester hour*

The Sinfonietta is an organization of highly selective membership performing music more specifically associated with smaller symphonic groups. Primarily, the literature represents the Baroque, Classical, and Modern Periods. The Sinfonietta performs major concerts both on campus and for off-campus engagements. Membership is determined by audition.

Mus 081-085 Band (Elementary) *⅓ semester hour*

A minimum of two semester hours of band is required of all music education students.

Students review and perform band music of first, second, and third grade difficulty suitable for use with school and community bands.

Mus 091-098 Band (Intermediate) *⅓ semester hour*

A training organization for the study and performance of band literature of medium difficulty. This band is also open to students from the Elementary, Secondary, and Health and Physical Education curriculums for extra-curricular credit.

Mus 181-188 Concert and Marching Band *½ semester hour*

Eight semesters are required of all music students who qualify for the Concert and Marching Band.

Open to men and women of any curriculum. Music for the Concert Band includes band music used at state festivals. Admission by tryout.

Mus 332 Instrumental Conducting *2 semester hours*

A study, theoretical and practical, of the conducting of various types of instrumental groups. Instrumentation, interpretation, balance, and score reading are studied, discussed, and practiced. Emphasis is placed on the development of adequate rehearsal techniques and skills. Physical elements which can improve or handicap a performance are discussed. Typical works of the late 18th and early 19th centuries are prepared and conducted from the full score. Both semesters. Prerequisite: Mus 331—Choral Conducting.

CHORAL FACULTY:

Sweet, *Chairman;* Sheppard, Williams.

Note: A minimum of six semesters of choral experience is required of all music education students. Eight semesters are required of all students except those majoring in a band or orchestra instrument.

Mus 061-064 Mixed Chorus *⅓ semester hour*

A group of freshman and sophomore Music Education students which meets once a week as a mixed chorus and once a week as Men's Chorus and Women's Chorus. It joins with the Concert Choir for combined performances.

Mus 161-164 Choir *½ semester hour*

A mixed choir of junior and senior Music Education students which meets twice a week, devoting its efforts toward a wide association with choral literature. It is used as an opera chorus in Music Department productions and joins with the Concert Choir for large combined performances.

Mus 361-368 Concert Choir *½ semester hour*

A mixed choir of Music Education students selected by audition. This choir of approximately forty voices meets twice a week, devoting its efforts toward acquiring a fine technique of choral singing through the preparation of an extensive repertoire for performance.

Mus 331 Choral Conducting *2 semester hours*

A practical application of conducting and vocal techniques to chorus direction is made through actual practice in conducting a choral group. Score reading, rehearsal techniques, and other related subjects are studied with reference to the maintenance of an effective chorus program in the schools. Both semesters.

ELECTIVES: OPEN TO ALL STUDENTS

Mus 007-010 Applied Music *1 semester hour*

Students in any curriculum may elect to study piano, voice, or some instrument, and receive credit upon demonstration of satisfactory progress. One lesson each week. Course placement will depend upon the student's background.

Mus 261-268 Women's Glee Club *⅓ semester hour*

The aim of this organization is to provide an opportunity for non-music women students to participate in a choral group. The activities include the Annual Christmas Carol Service and Women's Glee Club Spring Concert. Membership is by individual audition.

REQUIRED COURSES IN MUSIC FOR ELEMENTARY EDUCATION STUDENTS

Mus 050 Fundamentals of Music *no credit*

A course given to those students in the Elementary Curriculum who do not meet the prescribed requirements of a Standard Achievement Test in music. Fundamentals of Music includes the study of intervals, scales, measure and key signatures, simple and compound rhythms, notation and terminology, and the application of this knowledge to reading simple music. Prerequisite to Music for the Elementary Grades. Both semesters.

Mus 220 Fine Arts *3 semester hours*

See course description under MUSIC: Humanities.

Mus 251 Music for the Primary Grades *3 semester hours*

A course designed to equip the graduate, under supervision, to help in the enrichment of the music program in the primary grades of the public schools. Special emphasis is given to the student's acquiring a knowledge of the piano keyboard, voice production, elementary theory, rhythm, and form. In addition, various teaching methods and the use of materials that function in the program are presented: singing, also rhythmic listening, creative and instrumental activities keyed to the needs of the elementary child. Type lessons for the primary grades are taught by the student and constructively evaluated; observation of music in the schools is incorporated. Both semesters.

Mus 252 Music for the Intermediate Grades *3 semester hours*

A course designed to equip the graduate, under supervision, to help in the enrichment of the music program in the intermediate grades of the public schools. Special emphasis is given to the student's acquiring a knowledge of the piano keyboard, voice production, elementary theory, rhythm, and form. In addition, various teaching methods and the use of materials that function in the program are presented: singing, creative and instrumental activities keyed to the needs of the child in the intermediate grades. Type lessons for the intermediate grades are taught by the student and constructively evaluated; observation of music in the schools is incorporated. Both semesters.

ELECTIVE COURSES IN MUSIC FOR ELEMENTARY EDUCATION STUDENTS

Mus 100 Foundations of Music *3 semester hours*

See course description listed under MUSIC: Humanities.

Mus 327 Teaching Music Appreciation in the Elementary Grades *3 semester hours*

See course description listed under MUSIC EDUCATION and STUDENT TEACHING.

Mus 401 Piano Class (Elementary Teachers) *3 semester hours*

Functional study of the piano through class lessons so that the elementary teacher may use the instrument as a means of broadening the elementary music program into the integrated Elementary Education Curriculum. Piano accompaniments for classroom singing and rhythmic and creative activities are stressed through study, demonstrations, and teaching of practical classroom materials. A course designed primarily for the in-service elementary classroom teacher. Summer session.

Mus 007-010 Applied Music *1 semester hour*

Students in any curriculum may elect to study piano, voice, or some instrument, and receive credit upon demonstration of satisfactory progress. One lesson each week.

REQUIRED COURSE IN MUSIC FOR SECONDARY AND PHYSICAL EDUCATION STUDENTS

Mus 220 Fine Arts (Music) *3 semester hours*

See course description listed under MUSIC: Humanities.

NOTE: Many of the courses in the Music Curriculum are available to students in other departments. There are no fees for the students who qualify for the larger musical organizations.

PHILOSOPHY DEPARTMENT

DR. CLAGHORN, *Chairman*

Assistant Professor: Banyacski.

Phi 372 Survey of Oriental Religions *3 semester hours*

A critical survey of the origins, growth, and beliefs of the major non Judeo-Christian world religions. Hinduism, Buddhism, Zoroastrianism, Jainism, Sikhism, Shintoism, Confucianism, and Islam are considered. Spring semesters.

Phi 374 Problems of Aesthetics *3 semester hours*

The interpretation of beauty and art. Special attention is given to the effect of motivation and to problems in media and goals. The purpose of the course is to furnish a background of meaning for the evaluation of specific works of painting, sculpture, music, and architecture. Spring semesters.

Phi 380 Ethics *3 semester hours*

A consideration of the great ethical systems of history and of their application to personal and social life. The right and the good, the nature of values, and critical ethical dilemmas. Fall semesters.

Phi 480 Introduction to Philosophy *3 semester hours*

An introduction to the chief problems and methods of philosophic thought, with a survey of some typical solutions. Emphasis is on the place and influence of philosophy in the life of man today. Both semesters and summer session.

Phi 481 History of Philosophy, Ancient and Medieval *3 semester hours*

A survey of the major thinkers of the Western world, in the light of their times. From the Pre-Socratics through Plato and Aristotle to the late Middle Ages.

Phi 482 History of Philosophy, Modern *3 semester hours*

From Descartes to Hegel. Special emphasis will be placed on the social, political, and scientific impact of the philosophers.

Phi 483 Philosophy of History *3 semester hours*

Classic philosophies of history, including those of Augustine, Vico, Hegel, Marx, Spengler, Toynbee, and Collingwood. Definitions of civilization, norms of progress and decadence, determinism and indeterminism, causality, and pattern. Fall semesters.

Phi 484 American Philosophy *3 semester hours*

A study of the leaders in science and literature, religion and government, who have shaped American thought. Philosophers of Puritanism, the Revolution, Transcendentalism, and native schools of Realism, Idealism, and Pragmatism are considered. Fall semesters.

Phi 485 Contemporary Philosophy *3 semester hours*

Philosophic trends since 1850, including Pragmatism, Positivism, Existentialism, the Analytic School, and the East-West discussions.

Phi 486 Philosophy of Religion *3 semester hours*

A study of religion and the religious experience as conceived by great minds of history. The proofs for God, the nature of God, the problem of evil, religious epistemology, faith, immortality, and prayer.

Phi 490 Logic *3 semester hours*

The art of critical thought and of sound reasoning. Formal and classical logic; propaganda; and introduction to the scientific method. Both semesters and summer session.

Phi 491 Advanced Logic *3 semester hours*

The study of symbolic logic and its relation to contemporary philosophy and scientific thought. A concentrated study of two-valued sentential and quantificational logic and an introduction to many-valued logics, modal logic, and natural deduction. Prerequisite: Logic I.

Phi 498 Seminar in Ancient Philosophy *3 semester hours*

The directed study of a given topic in ancient philosophy as it relates to vital questions of our own time. Topic for 1966-67: Plato. Required for all Philosophy majors. Prerequisite: nine hours of Philosophy or permission of the instructor. Fall semesters.

Phi 499 Seminar in Modern Philosophy *3 semester hours*

An intensive study of some major theme of modern philosophy. Topic for 1966-67: The Scientific Method. Required of all Philosophy majors. Prerequisite: nine hours of Philosophy or permission of the instructor. Spring semesters.

PUBLIC SCHOOL NURSING COURSES

PSN 300 Public School Nursing *2 semester hours*

This course reviews the fundamental principles of school nursing as a branch of public health nursing, including historical background, the various fields it covers, the problems and limitations that are involved. Responsibilities of the nation, state, community, school board, administrators, and the school nurse are studied.

PSN 302 Public Health Nursing I *3 semester hours*

A survey of the fundamental principles and the historical background of public health work in Europe, England, and America. Much stress is placed on the recent movement to bring this work up to date in our own state and the training and procedures by which it is to be accomplished. Careful consideration is given to the social changes in medicine, preventive techniques, population trends, modern ideas of sanitation and sewage disposal, housing conditions of today, methods of record keeping, Civil Service procedures and limitations as they concern the nurse.

PSN 303 Public Health Nursing II *3 semester hours*

A continuation of Public Health Nursing I. The course deals with past and present patterns, definitions, and processes of public health nursing practice which apply to public health nursing today. Career planning and professional development of the school nurse specialty is an important aspect of the course. Special emphases are placed upon school nursing as it relates to the total community health program. Generalized versus specialized public health nursing service is carefully analyzed.

PSN 304 Foundations of Nutrition *3 semester hours*

An overview of the principles of normal nutrition as they relate to therapeutic conditions in light of current developments, food habits, marketing and budgeting. The nurse's role is covered in the following fields: teaching of nutrition in schools, homes, institutions and family nutrition service. This course is based upon the premise that the appraisal of nutritional needs and resources of the family and community precedes the development of a plan of guidance and counseling in the nutritional component of public health nursing today.

PSN 305 Family Case Work *3 semester hours*

A study of the processes of interviewing and making case studies of family groups. The history and sociology of the American family are used as background for study. Lectures, reports, and seminar techniques are employed. Summer session only.

PSN 306 Prevention and Control of Communicable Diseases *3 semester hours*

The course is designed to help the school nurse to gain a more comprehensive understanding of those communicable diseases which are creating current health problems in our communities. Special emphasis will be placed upon the school nurse's role as a member of the school health team in the prevention and control of communicable disease problems.

PSN 307 Specialized Health Problems, Methods and Materials for School Nurses *3 semester hours*

This course is a continuation of PSN 300 and will deal primarily with the special physical, emotional, and social problems of our society which affect the health of children and the methods employed at home, school, and in the community to solve them. Methods and materials in health education evaluation and administration will be included as an integral aspect of the course in an effort to help the school nurse participate more effectively as a health resource person on the school health team.

DEPARTMENT OF SCIENCES

DR. RICKERT, *Chairman*

DR. DORCHESTER, *Vice-Chairman*

Professors: Bravo, Reynolds, Trezise; Associate Professors: Ashkenaz, Bernhardt, Casciato, Cullen, Greenberg, McDonnell, Muehlmann, Overlease, Skillen, Townsley; Assistant Professors: Bliss, Cinquina, Greenwood, Hawkes, Jacobson, Jones, Schoel; Instructors: Buehler, Chang, Melucci, Smith; Lecturer: Espenshade.

General Service Courses

Sci 100 Basic Biological Science *3 semester hours*

A course dealing with the principles of biology. Topics include cellular structure and physiology, growth and repair, reproduction and development, control, sources of food energy, inheritance, and man's interrelationship with his biological environment. The classification of plants and animals is reviewed briefly. Both semesters and summer sessions.

Sci 150 Basic Physical Science *3 semester hours*

Deals with the interpretation of selected phenomena and data supporting selected theories. Subject matter usually includes astronomy, Newton's laws of motion, conservation laws, energy, and structure of matter. Both semesters and summer session.

Sci 250 Science for the Elementary Grades *3 semester hours*

A course following the year of basic science designed to provide the elementary teacher with a more adequate background for teaching science in the elementary school. Units or problems are selected to achieve this purpose which cut across various fields of science. Emphasis is placed upon developing resourcefulness, in gathering data, and using scientific methods in the solution of such problems. Prerequisites: Basic Biology and Basic Physical Science, or acceptable equivalent courses. Both semesters and regular summer session.

Sci 252 Earth Science *3 semester hours*

Forces bringing about changes in the earth's crust applied to the problem of explaining present and past changes. Diastrophism, vulcanism, erosion, and sedimentation will be included. Physical changes in the atmosphere will be studied as major influences governing the weather. Finally, the earth will be considered as a member of the solar system. This course is recommended an an elective for students in Elementary Education who have completed Science 150 (Basic Physical Science). Not open to students who have received credit for Geo 205, 206, 301 or 302. Cannot be used to satisfy requirements for a field of specialization in Science or Geography. Fall semester and summer sessions.

Sci 261 Physical Geology *4 semester hours*

The composition of the earth is studied, and the agents that sculpture the land are investigated. Rocks and minerals are examined, and the processes of weathering, erosion, vulcanism, and diastrophism are discussed. Interpretation of geologic and topographic maps and aerial photographs is made in order to determine the significance of geologic features found on them. Fall semester and summer session.

Sci 262 Historical Geology *4 semester hours*

This course discusses the history of the earth with emphasis on North America; the methods used to determine this history are explained. Selected fossils that are representative of each geologic period are studied. The paleontology, paleogeography, stratigraphy, and economic geology of each geologic period are analyzed. Spring semester and summer session.

Sci 263 Mineralogy and Petrology *3 semester hours*

The physio-chemical principles used in the classification, identification, and origin of minerals and rocks are examined. How minerals are combined to form rocks is discussed. Samples of rocks and minerals are analyzed in the laboratory, and the economic significance of these rocks and minerals is studied. Prerequisites: Inorganic Chemistry II and Physical Geology. Fall semester of odd years.

Sci 264 Geochemistry *3 semester hours*

The chemistry of the lithosphere, hydrosphere, atmosphere, and biosphere is examined. Reasons for the occurrence and concentration of certain chemical elements in certain areas of the earth will be discussed. The migration of chemical elements and its relationship to geologic processes are studied. Prerequisites: Inorganic Chemistry II and Physical Geology. Spring semester of odd years.

Sci 350 Teaching Science in Secondary Schools *3 semester hours*

A course designed to familiarize prospective teachers with the philosophy, objectives, and methods related to the teaching of science. Practical experience is provided in the selection of textbooks, preparation of unit and lesson plans, construction of tests, and use of special techniques. Prerequisites: 16 hours of work in major field. Fall semester and summer session.

Bio 210 Field Botany *3 semester hours*

A course giving methods useful in the study of plants in their natural surroundings. The use of keys, botanical manuals, and illustrated floras to identify living specimens will constitute a major activity. Prerequisites: Basic (College) Biology or two semesters of Botany. Summer session.

Bio 241 Field Zoology *3 semester hours*

A course to familiarize teachers with the animal life in the surrounding localities. Considerable attention will be given to the use of keys, charts, books, and museum specimens as guides to the identification and classification of various animals. Field trips will be taken to observe, collect, and study animals as well as their habits. Prerequisite: Basic (College) Biology or at least one semester of Zoology. Summer sessions.

Bio 242 Ornithology *3 semester hours*

An introduction to the birds of Pennsylvania with special emphasis on the identification of birds in the field. Lectures deal with classification, migration, habitat preference, song, courtship, nesting and rearing of young, and plumage changes. Abundant field work gives practice in identification of native birds by their songs, behavior, form, and plumage. Prerequisite: Basic (College) Biology or at least one semester of Zoology. Spring semester; also in summer pre-session.

Bio 301E Basic Genetics *3 semester hours*

A course for non-major students based on the study of the Mendelian Laws of Inheritance. Mitosis, meiosis, and cell structure will be reviewed. Mechanics of monohybrid and dihybrid crosses, linkage, crossing-over, and probability will be considered. Practical applications related to elementary teaching will be stressed. Not open to Science Majors. Fall semester.

Bio 355 Wildlife Conservation *3 semester hours*

A field course in which emphasis will be placed on principles of conservation of plants and animal resources. Wildlife refuges, nature preserves, state parks, forests and game lands will be visited. Pertinent literature will form the basis of collateral reading assignments. Active membership in a nationwide organization concerned with wildlife protection will be encouraged. Prerequisite: Basic (College) Biology or three semesters of Botany and Zoology. Fall semester.

Phy 330 General Astronomy *3 semester hours*

A study of astronomical bodies from the earth to distant galaxies. The emphasis is upon the question, "How do we know?" as applied to astronomical distances and stellar statistics such as temperature, composition, mass, and size. The life history of stars is explored. Prerequisite: Sci 150 or equivalent. Fall semester and summer session.

Biology

Bio 111 Botany I *4 semester hours*

Botany I is a study of flowering plants. Topics include the structure and life processes of plant cells, leaves, stems, roots, flowers, seeds, and fruits. The economic importance of plants used by man and the recognition and classification of seed plants in the immediate environs of the College are included. Fall semester.

Bio 112 Botany II *4 semester hours*

Botany II is concerned primarily with the non-flowering plants. It considers both the structure and life processes of selected algae, bacteria, fungi, mosses, ferns, and their allies. The economic importance and health implications of certain of these groups are emphasized. Spring semester.

Bio 141 Zoology I *4 semester hours*

A study of representative life forms from each of the invertebrate phyla. Emphasis is placed on their structure, function, origin, development, economic importance and biological significance. Every fall semester and summers of odd years.

Bio 142 Zoology II *4 semester hours*

A study of the chordates in general, and more particularly the classes of vertebrates. Topics studied include the anatomy, physiology, origin, development, and life history of representative members of each class. Every spring semester and summers of even years.

Bio 243 Comparative Anatomy *3 semester hours*

Comparative anatomical study of organ systems and evolutionary development of various classes of chordates. Laboratory work involves a thorough dissection of an agnathan, a chondrichthyan, an osteichthyan, an amphibian, a bird, and a mammal. Prerequisite: Zoology II. Spring semester of odd years.

Bio 261 Human Anatomy *4 semester hours*

A one semester course in human anatomy with special emphasis in the skeleto-muscular system. Fall semester and summer session.

Bio 262 Human Physiology *4 semester hours*

A one semester course in basic human physiology with special emphasis on the circulatory, respiratory, and nervous systems. Spring semester and summer session.

Bio 301 Genetics *3 semester hours*

A course giving the student an understanding of the laws of inheritance as they operate in plants, animals, and humans. Cell structure, Mendelian inheritance, eugenics, linkage, probability, crossing over, and random assortment are all considered. Prerequisites: Six hours of biology. Spring semester.

Bio 302 Ecology *3 semester hours*

The study of the relationship between living things and their environment will be approached through the study of individual ecosystems. Included in the course will be the study of the aquatic, the forest, the field, and the city ecosystems. Each of these will be studied through actual experiences in the field. Methods of sampling will be emphasized. Prerequisite: Six hours of biology or permission of the instructor. Fall semester.

Bio 310 Bacteriology *3 semester hours*

A study of microscopic forms of life which are commonly encountered in biological work. Emphasis is placed upon culture techniques and physiological processes of micro-organisms. Prerequisites: Botany I and II, Zoology I and II. Fall semester of even years.

Bio 341 Entomology *3 semester hours*

A general study of insects, including structure, physiology, economic importance, classification, and relationships. Each student is required to participate in field trips and to complete a project including a collection and report on some group of insects. Prerequisite: Basic Biology or Zoology I. Spring semester of even years.

Bio 344 General Physiology *3 semester hours*

A one semester course in the general principles of Physiology. The course is centered around the concept of homeostasis and includes such topics as: the nature of protoplasm, acid-base balance, bioenergetics, electrophysiology, and enzyme activity. Prerequisites: One year of college chemistry, Zoology I and II or equivalent, one semester of college mathematics. Spring semester.

Bio 345 Plant Physiology *3 semester hours*

An examination of the physiological processes of plants is undertaken. Topics of study include photosynthesis, respiration, intermediate metabolism, entrance of solutes into the plant, water metabolism, and plant growth regulators. Prerequisites: Two semesters of college botany, General and Organic Chemistry. Fall semester of odd years.

Bio 346 Plant Structure *3 semester hours*

A microscopic examination of the structure of plant cells is undertaken stressing the interrelationship of cells, the function of cells, and the variations of cell anatomy. Prerequisites: Two semesters of college botany or the permission of the instructor. Fall semester of even years.

Bio 351 Embryology *3 semester hours*

Introduction to the principles of animal development illustrated by laboratory work consisting of a comparative anatomical and histological study of the processes of fertilization, cleavage, gastrolation, tubulation, and early organic formation in invertebrate and vertebrate embryos. Prerequisites: Zoology I and II and General Chemistry II. Fall of odd years.

Bio 355 Wildlife Conservation *3 semester hours*

A field course in which emphasis will be placed on principles of conservation of plants and animal resources. Wildlife refuges, nature preserves, state parks, forests, and game lands will be visited. Pertinent literature will form the basis of collateral reading assignments. Active membership in a nationwide organization concerned with wildlife protection will be encouraged. Prerequisite: Basic (College) Biology or three semesters of Botany and Zoology. Fall semester and summer session.

Bio 402 Cytology *3 semester hours*

Plant and animal cells are studied with particular reference to the processes of reproduction, growth, and differentiation. Theories concerning the functions of the various structures will be discussed. Laboratory work will be assigned. Prerequisites: Botany I and II, Zoology I and II and General Chemistry II. Spring semester of even years.

Bio 411 Plant Taxonomy *3 semester hours*

The principles of taxonomy as applied to the practical experience of plant identification will be stressed. Modern concepts of biosystematics will be introduced. Skill in the use of plant keys for identification will be developed as well as knowledge of the local flora. The course will include field trips and visits to local botanical gardens. Prerequisite: One year of general botany. Fall semester of even years.

Bio 450 Biology Seminar *1 semester hour*

Reports on special topics and current developments in the biological sciences. Prerequisite: 24 credit hours in biological sciences. Fall and spring semesters.

Bio 452 Special Problems in Biology *1 to 3 semester hours*

A tutorial course for advanced undergraduates who are judged capable of doing independent study and research on a minor problem. An opportunity is provided to investigate details of anatomy, behavior, physiology, variations within a species, and inter-relations of plants and animals. To be arranged by permission of a professor or associate professor.

Che 120 Principles of Chemistry *4 semester hours*
(for Health Education students only)

A survey course required of all students of health and physical education. It does not satisfy the requirements in chemistry for science majors. The fundamental laws and theories of chemistry, problem solving, and laboratory techniques are stressed. Both semesters.

Che 121 General Chemistry I *4 semester hours*

A study of the basic laws of chemistry, fundamentals of chemical combination, atomic structure, chemical bonding, oxidation-reduction, solutions, electrochemistry, and modern concepts of acids and bases. Fall semester.

Che 122 General Chemistry II and Qualitative Analysis *4 semester hours*

A continuation of chemistry 121 to include a study of the oxidation states of the common elements, chemical equilibrium, solubility product and pH, and nuclear chemistry. Laboratory work includes the semi-micro qualitative analysis of the common ions. Spring semester. Prerequisite: Chemistry 121.

Che 222 Quantitative Analysis *4 semester hours*

A study of the theory, practice, and calculations of gravimetric, volumetric, electrolytic, and potentiometric analysis. Prerequisite: Chemistry 122. Fall semester.

Che 321 Organic Chemistry I *4 semester hours*

A study of the structural features of organic molecules and the relationship of their properties to the functional groups involved. All types of organic compounds are discussed, but the main emphasis is on the aliphatic series. Prerequisite: Chemistry 122. Fall semester.

Che 322 Organic Chemistry II *4 semester hours*

A continuation of Chemistry 321 to include a more detailed study of aromatic and heterocyclic compounds. Prerequisite: Chemistry 321. Spring semester.

Che 325 Physical Chemistry I *4 semester hours*

A study of the properties of the states of matter, chemical thermodynamics, thermochemistry, theory of solutions, and homogeneous chemical equilibrium. Prerequisites: Chemistry 222; Physics 102 and Math 241 (may be concurrent). Fall semester.

Che 326 Physical Chemistry II *4 semester hours*

A continuation of Chemistry 325 to include heterogeneous equilibria, electrochemistry, chemical kinetics, and atomic and molecular structure. Prerequisite: Chemistry 325. Spring semester.

Che 421 Instrumental Methods of Analysis *3 semester hours*

A study of the theory and applications of modern instrumentation in analytical chemistry including techniques in potentiometry, conductivity, spectroscopy, and chromatography. Prerequisite: Chemistry 222. Spring semester.

Che 422 Advanced Inorganic Chemistry *3 semester hours*

The applications of modern chemical theories to inorganic substances and reactions. Includes a study of the chemistry of the short and long transition elements. Prerequisite: Chemistry 122. Spring semester of odd years.

Che 423 Qualitative Organic Analysis *3 semester hours*

A laboratory course devoted to the identification of unknown organic compounds and mixtures. Includes classical procedures and modern techniques such as infrared and ultraviolet spectroscopy, etc. Prerequisites: Chemistry 222 and 322. Fall semester of even years.

Che 431 Industrial Chemical Processes *3 semester hours*

A course emphasizing the industrial aspects of chemistry including a description of chemical machineries, unit operations and processes, selected demonstration experiments, and trips to neighboring industries. Prerequisite: Chemistry 321. Spring semester of even years.

Che 441 History and Literature of Chemistry *2 semester hours*

A study of the historical background of chemistry, and instruction in the use of a modern chemical library. Prerequisite: senior standing and permission of instructor. Fall semester of odd years.

Che 442 Introduction to Chemical Research *2 to 6 semester hours*

A program of study for senior students designed to introduce them to a library and laboratory problem under direct supervision of a staff member. Prerequisite: senior standing and permission of instructor. Every semester.

PHYSICS

Phy 101 Physics I *4 semester hours*

An introductory course. Topics discussed include statics; uniformly accelerated motion; Newton's laws; gravitation; work and energy, and momentum; angular motion; simple harmonic motion; mechanics of fluids; heat and temperature, and thermodynamics; and the kinetic theory. Emphasis is placed on the conservation laws throughout. Concurrent: Mat 105 or Mat 141. Fall semester and summer session.

Phy 102 Physics II *4 semester hours*

An extension of Phy 101. Topics discussed include wave motion and vibrating bodies; electrostatics, d. c. circuits, magnetic fields and effects, resistance, capacitance, and inductance; geometrical and physical optics; and modern physics. Concurrent: Mat 142 recommended. Prerequisites: Phy 101. Spring semester and summer session.

Phy 212 Mechanics *4 semester hours*

An intermediate course. Topics discussed include kinematics and dynamics of particles; work and energy; the conservation principles; free, forced and damped harmonic oscillations; rigid body motion; and properties of solids and liquids. Vector analysis is introduced as an integral part of the course. Concurrent: Mat 241 recommended. Prerequisites: Phy 102. Spring semester.

Phy 233 Introduction to Modern Physics *4 semester hours*

An intermediate course. Topics discussed include kinetic theory of gases, special relativity, quantum and wave aspects of electromagnetic radiation, atomic structure, and spectra, molecular and solid-state physics. Prerequisites: Phy 101, Phy 102, and Mat 142. Fall semester.

Phy 413 Analytical Dynamics *3 semester hours*

An advanced undergraduate course. This course is an extension of Phy 212 but the approach is more formal and analytical. Topics discussed include wave propagation; Lagrange's equations and Hamilton's principle; rigid body motion; and special relativity as it relates to classical mechanics. Prerequisites: Phy 212 and Mat 241. Fall semester of even years.

Phy 414 Heat and Thermodynamics *3 semester hours*

The topics discussed include equations of state; specific heat, and latent heat; first and second laws of thermodynamics; ideal and real gases; entropy; statistical mechanics. Prerequisites: Phy 101, Phy 102, and Mat 212. Spring semester of odd years.

Phy 421 Electricity and Magnetism *4 semester hours*

An intermediate course. Topics discussed include Coulomb's law, the electric field, and potential; dielectric materials; steady currents; the magnetic field and magnetic materials; and alternating currents. The Maxwell equations are introduced as an integral part of the course with application to electromagnetic radiation introduced at the end. Concurrent: Mat 343 recommended. Prerequisites: Phy 212 and Mat 142. Mat 241 is recommended. Fall semester.

Phy 422 Optics *4 semester hours*

An intermediate course in Optics. Theory and laboratory practice in geometrical and physical optics. Reflection and refraction at surfaces, lenses, interference and diffraction, spectroscopy, polarization, and the applications of electromagnetic theory to light are discussed. Prerequisites: Phy 212, Phy 421, and Mat 241. Spring semester of even years.

Phy 423 Electronics *4 semester hours*

An intermediate course. Topics discussed include electron emission, rectification, voltage, and power amplification, impedance matching, oscillators, and test circuits. Vacuum tube and solid state devices are studied. Prerequisites: Phy 101 and Phy 102. Fall semester.

Phy 432 Atomic and Nuclear Physics *4 semester hours*

The advanced undergraduate course. Topics discussed include the vector model and the qualitative mechanical descriptions of atoms; line spectra and the periodic chart; radioactivity; elementary particles; nuclear reactions; and nuclear structure. Prerequisites: Phy 212, Phy 421 and Mat 241. Spring semester of even years.

Phy 440 Introduction to Research *1 to 3 semester hours*

Theoretical and experimental work are carried on in the library and laboratories. Specific problems are selected in consultation with the faculty adviser. Prerequisite: consent of instructor. Fall and spring semester.

Phy 444 Seminar *1 semester hour*

Oral and written reports on approved topics. Variation in topics from year to year depending on the interests and needs of students. Prerequisite: senior standing. Spring semester.

RESEARCH AND DATA PROCESSING DEPARTMENT

DR. WOODLEN, *Chairman*

Assistant Professors: Ern, Sgambati.

CSc 201 Basic Computer Science *3 semester hours*

Study of computer-associated equipment including card punch, verifier, sorter, interpreter, accounting machine, and collator. Machine language programming on the 1620 computer. Computer input-output media including magnetic tape and desk storage. Demonstrations on the computer. Both semesters and summer.

CSc 301 Computer Programming *3 semester hours*

Study of computer system configuration is followed by discussion of data characteristics, instruction formats, and data transmission. Consideration of symbolic languages, an introduction to SPS, and study of Fortran. Discussion of fixed and floating point arithmetic is illustrated with applied programming problems using the college computer. Other topics considered include address modification and indirect addressing. Both semesters and summer.

CSc 401 Numerical Analysis *3 semester hours*

Methods of solving the following problems using a digital computer: solutions of algebraic and transcendental equations, determinants and matrices, approximation by polynomials, finite differences, interpolation, linear systems of equations, numerical differentiation and integration, and numerical solution of ordinary differential equations. Laboratory hours available on the college computer for testing of methods. Prerequisites: Mat 341 or Mat 343, CSc 301.

DEPARTMENT OF SOCIAL SCIENCES

DR. FLECK, *Chairman*

Professors: Carlson, Everett, Harding, Maneval, Schooler; Associate Professors: Houpt, Phillips, Samuelson, Schalck, Shaffer, Soldon, Swan, Turner; Assistant Professors: Bradshaw, Bram, Burns, Burton, Drayer, Ivins, Morgan, Shur, Young; Instructor: Doyle.

SSc 331 Teaching Social Studies in Secondary Schools *3 semester hours*

A course to familiarize prospective teachers with desirable methods which may be used in teaching the social studies. Emphasis is placed on the philosophy, objectives, courses of study, and organization of subject matter for teaching purposes, curriculum materials, procedures, and development. Teaching majors take this course in their junior year. Both semesters and summer.

SSc 332 Teaching Social Studies and Geography in Elementary Schools *3 semester hours*

A course designed to acquaint students with the methods of teaching social studies and geography in the elementary curriculum. It is a survey of methods and techniques, stressing the profitable use of community affairs and resources, and the development of good civic attitudes in social living. It considers techniques in the use of maps, specimens, pictures, and other tools of learning which are of special value in social studies. Student participation in community activities is stressed. Both semesters and summer.

SSc 400 Senior Seminar *3 semester hours*

The senior seminar is a study of the interpenetration and coordination of the social sciences. Investigating a topic selected by the instructor, the student synthesizes the contributions and approaches of the social sciences to the project under study. Emphasis is placed on methodology, bibliography, and presentation, both oral and written. The research paper written for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all departmental majors in teacher education and liberal arts. Both semesters.

SSc 410 Independent Studies *1 to 3 semester hours*

Special research, projects, reports, readings. Open to seniors only. Prerequisite: permission of department chairman.

EUROPEAN TOUR

SSc 300 Seminar in Contemporary European Culture *6 semester hours*

A fully guided tour of Europe with visits to important areas of the major countries. The tour is organized as a seminar with a number of orientation discussions before departure. Opportunity will be provided for questions and discussion periods en route. Each student will be asked to keep a daily diary with comments about and reactions to the various places visited and historical and cultural things seen and discussed. Every summer.

His 101 History of Civilization I *3 semester hours*

A study of the origins and evolution of social institutions and cultural elements in the river valley civilizations of the ancient Near East, India, and China, and of the Hellenic and Roman Worlds. The course concludes with a discussion of the Middle Ages in western Europe and the Renaissance. Required in the freshman year of all departmental majors. Both semesters and summer.

His 102 History of Civilization II *3 semester hours*

A study of the developments in civilizations from 1500 to the present, with emphasis on Western Civilization and its interrelationships with the non-Western world. Required in the freshman year of all departmental majors. Both semesters and summer.

His 211 History of United States and Pennsylvania I *3 semester hours*

A survey course in the history of the United States and Pennsylvania from the beginning of the colonial period to the end of the Civil War. Emphasis is placed on the social, economic, political, and intellectual development of our nation in general and our Commonwealth in particular. Prerequisite: His 101 - 102. Both semesters and summer.

His 212 History of United States and Pennsylvania II *3 semester hours*

A survey course in the history of the United States and Pennsylvania from 1865 to the present. Stress is placed on the impact of the Industrial Revolution on our society, the growth of labor, world power, our part in World Wars I and II, and the activities of our nation in behalf of international organization. Prerequisite: His 101 - 102. Both semesters and summer.

His 218 The Ancient World *3 semester hours*

A study of the history and culture of the ancient civilizations and of the classical world to the fall of the Western Roman Empire. Special emphasis will be placed on the Hellenic and Hellenistic worlds, and attention will be given to the relationships of this ancient world to that of the Orient. Prerequisite: His 101 - 102. Spring semesters.

His 219 Medieval Europe *3 semester hours*

A study of western European development from the fall of Rome through the Renaissance. Emphasis is placed upon the economic, social, political, and intellectual developments in the major kingdoms of the West and upon the history of the Universal church. Particular attention is paid to the seigneurial-urban revolution of the eleventh century. Prerequisite: His 101 - 102. Spring semesters.

His 220 Renaissance and Reformation *3 semester hours*

A study of the Renaissance and Reformation with particular emphasis on the important political, economic, social, and cultural forces that emerged during this period of transition and ushered in the modern western culture. Emphasis is placed on the evolution of modern states and the rise of individualism. Prerequisite: His 101 - 102. Fall semesters.

His 221 Modern Europe: 1648-1815 *3 semester hours*

This course gives a broad view of the events following the Reformation, the development of nationalism, and the revival of science. Emphasis is placed on the Old Regime through a study of the Age of Louis XIV, the rise of Prussia and Russia, imperial rivalries, and the Intellectual Revolution. The course concludes with a study of the French Revolution and Napoleonic Wars. Prerequisite: His 101 - 102. Fall semesters.

His 222 Modern Europe Since 1815 *3 semester hours*

A comprehensive study of the factors contributed by the European people in their national organization through their political, social, and economic activities. An understanding of the casual and intergroup relationships is essentially basic to analysis and interpretations of the difficulties facing the European world today. Prerequisite: His 101 - 102. Spring semesters.

His 313 History of Pennsylvania *3 semester hours*

A study of the founding and development of Pennsylvania from its colonial beginning to the present time. Emphasis is placed on the social, economic, political, and intellectual developments in the different periods of its history. Special attention is given to the diversity of the people, their institutions and problems, and the growth of Pennsylvania to a leading position in our modern industrial world. Prerequisite: His 211 - 212. Fall semesters and summer.

His 314 Diplomatic History of the United States
3 semester hours

A study of our foreign relations from the beginning of our national history to the present. Such aspects as the growth and influence of a policy of "isolation," the creation and development of the Monroe Doctrine, the changing position of the United States as a world power, and the problems incident to the assumption of the resulting responsibilities. Prerequisite: His 211 - 212. Spring semesters.

His 315 Economic History of the United States
3 semester hours

A study of the economic development of the American nation. Emphasis is placed on the economic factors and forces underlying the changes taking place as a young, frontier country, primarily agricultural, emerges as a wealthy and complex industrial power. Special attention is given to the growth of consumption as well as production and to the increasing role of the individual as a primary center of economic interest. Prerequisite: His 211 - 212. Spring semesters.

His 316 History of the American Frontier *3 semester hours*

The study of the westward movement and expansion from colonial times to the end of the nineteenth century with a consideration of the frontier forces which shaped American democratic institutions and ideals. Prerequisite: His 211 - 212. Fall semesters.

His 317 History of American Science and Technology
3 semester hours

This course studies the importance of science, invention, and technology in the rise of the American nation. The scope of time is from 1607 to the present and develops the transition from domestic manufacture to the machine age. Special consideration is given to noteworthy scientists, inventors, and technologists. Prerequisite: His 211 - 212. Spring semesters.

His 318 Constitutional History of the United States
3 semester hours

A study of the growth of the American Constitution from the Philadelphia convention of 1787 to the present time. Notable constitutional crises over such issues as nullification, secession, centralization, and presidential power are examined. Particular attention is given to the work of the Supreme Court in successive periods such as the Marshall Era, the Taney Era, the Post-Civil War Era, the New Deal Era, and the Civil Rights Era. Prerequisite: His 211 - 212. Fall semesters.

His 319 Social and Intellectual History of the United States *3 semester hours*

An examination of pre and post Civil War reform movements and philosophical trends. Emphasis is placed on Puritan theology, 18th century religious revivalism, revolutionary concepts in France and America, the transcendentalist "revolt," experiment in Utopian societies, the impact of Darwinian thought on industrial expansion, and the rise of a pragmatically oriented society. Prerequisite: His 211 - 212. Spring semesters.

His 320 History of the South *3 semester hours*

An examination of the social, political, economic, and intellectual factors involved in the development of the American South from its colonial origins to the present. Emphasis is placed on pre-revolutionary settlements, plantations and slave society, ante-bellum and post-bellum political alignments, populist activities, and the emergence of an industrially oriented South. Prerequisite: His 211 - 212. Spring semesters.

His 321 History of England *3 semester hours*

The growth of the people and institutions of England from the conquest by the Anglo-Saxons to the present. Emphasis is placed on the development of those factors that gave rise to the struggle and events that culminated in the establishment of democratic principles and organization in our modern world. Prerequisite: His 101 - 102. Spring semesters.

His 322 History of South Asia *3 semester hours*

Primarily designed as a historical study of developments on the Indian sub-continent (India and Pakistan), the course also considers those areas of South-East Asia (Burma and Thailand) which have been traditionally influenced by the course of Indian events. Prerequisite: His 101 - 102. Spring semesters.

His 323 History of the Middle East *3 semester hours*

A study of the history of the major Middle Eastern countries since 1900. At the beginning of the course some emphasis will be placed on the geographical, cultural, economic, and religious factors affecting the recent history of the area. Special emphasis is placed on Middle East problems which affect the international relations of the world. Prerequisite: His 101 - 102. Fall semesters.

His 324 History of Latin America *3 semester hours*

The development of the Latin American countries from the period of discovery to the present. The economic, social, political, and cultural areas receive special attention first as domestic problems, then as they are related to the various political units involved. The influence of European and American relations as they are reflected in local changes are given consideration. Prerequisite: His 101 - 102. Fall semesters.

His 325 History of the Twentieth Century World *3 semester hours*

The significance of events in the present century brought out by a study of the growth of capitalism, imperialism, totalitarianism, international jealousies, World Wars I and II, and the attempts of the family of nations to find world peace through international understanding. Prerequisite: His 101 - 102. Fall semesters.

His 326 History of Russia *3 semester hours*

A study of the Russians from the time of the Slavic migrations and the Kievan state to the present. Major emphasis is on the period since Peter the Great, with particular concentration on the political, diplomatic, economic and social development of Russia from 1917 to the present day. Prerequisite: His 101 - 102. Fall semesters.

His 327 The British Empire-Commonwealth *3 semester hours*

Traces the rationale of imperialism; the expansion of Britain overseas; the development of her colonial holdings; and the evolution of the concept and reality of the Commonwealth of Nations. Special emphasis is given to the development of the self-governing dominions: Canada, Australia, New Zealand, South Africa, and India, and the relation of these areas to the 20th-century world. Prerequisite: His 101 - 102. Fall semesters.

His 328 History of Modern Africa *3 semester hours*

Survey of the historical background of sub-Sahara Africa and North Africa, with primary emphasis on European expansion in the continent and its influence on 20th-century African political and social movements. Prerequisite: His 101 - 102. Spring semesters.

His 329 History of East Asia *3 semester hours*

Survey of the historical and cultural background of China, Japan, and Korea. Emphasis will be given to the significance of the modern period of East Asia and its impact on world affairs. Prerequisite: His 101 - 102. Fall semesters.

Ant 231 Introduction to Cultural Anthropology

3 semester hours

An introduction to the science of culture; comparative analysis of preliterate technologies, family systems, political organization and religion; emphasis will be on the variety of response exhibited by preliterate and advanced cultures to common human problems. Both semesters.

Ant 331 Human Evolution *3 semester hours*

An intensive introduction to human evolution and race formation; the emergence of evolutionary theory, comparative primate anatomy and behavior, the fossil record, population genetics, climate and race, races of the world. Emphasis will be on the genetic theory of evolution. Some preliminary course work in Biology is recommended. Spring semesters of odd years.

Ant 332 Social Organization *3 semester hours*

An intensive consideration of types of social groups, their structure and function. Kinship-based groupings, bands, villages and larger units, as well as associations and secret societies, will be considered. Emphasis will be on forms of organization characteristic of preliterate cultures. Prerequisite: Ant 231. Spring semesters of even years.

Ant 333 Cultural Dynamics *3 semester hours*

An empirical and theoretical study of culture change. Theories of cultural evolution will be stressed, with some emphasis placed on empirical studies of culture changes. The impact of western civilization on preliterate cultures will be discussed. Prerequisite: Ant 231. Fall semesters of odd years.

Ant 334 World Ethnography *3 semester hours*

Selective survey of the preliterate cultures of the world, especially those of Oceania, Tropical Africa, and the American Indian. Emphasis will be on the cultures as they were before the changes wrought by contact with the west, although problems of culture change will be discussed. Selection will be made to illustrate various levels of societal complexity. Prerequisite: Ant 231. Fall semesters of even years.

Eco 231 Principles of Economics *3 semester hours*

A study of the fundamental concepts necessary for an understanding of the operation and problems of a modern industrial economic system. Of basic concern is the explanation of production and consumption activities in our modified capitalistic economy, accompanied by considerable emphasis on the important and urgent problems of unemployment, inflation, economic growth, and concentration of economic power. Attention is given to associated matters such as labor problems, business organization, banking, and the economic role of government. Both semesters and summer.

Eco 332 Contemporary Economic Problems *3 semester hours*

This course applies economic principles and economic reasoning to the analysis of today's major economic issues. Of primary importance is the comparison of social costs and benefits of alternative approaches to the resolution of economic problems. Specific problem areas covered include economic growth, price and employment instability, government intervention and control, income distribution, and international economic relations. Prerequisite: Eco 231. Fall semesters.

Eco 333 Consumer Economics *3 semester hours*

A major objective of this course is to acquaint the student with the kinds of economic decisions he must make as a consumer. Of equal importance is an analysis of the economic and social consequences of common patterns of consumer decision-making. Specific topics include saving, investment, budgeting, advertising, insurance, housing, medical care, consumer protection, and the consumer and government. Every semester.

Eco 334 Industrial Relations *3 semester hours*

The history of labor-management relations in the United States is surveyed. This provides the background for analysis of objectives sought and policies followed by labor and management in modern industrial relations. The collective bargaining process is examined and its influence in the labor market evaluated. The role of government in industrial relations is thoroughly examined. Prerequisite: Eco 231. Spring semesters of even years.

Eco 335 Money and Banking *3 semester hours*

A course designed to portray the place and influence of monetary institutions and policies in a modern industrial economy. The historical evolution of modern monetary systems is traced and is used to aid the explanation of general principles of credit, the effect of monetary policy on economic activity, money and price levels, and the Federal Reserve and the banking system. Prerequisite: Eco 231. Fall semesters of odd years.

Eco 336 Business and Government *3 semester hours*

The general objective of this course is to examine the major ways that government directly modifies the operation of our private-enterprise economy. Particular concern is paid to the pros and cons of public policies which change the extent or nature of competition, those which substitute public for private enterprise, and those which substitute regulation for competition. Prerequisite: Eco 231. Fall semesters of even years.

Eco 337 Economic Growth and Development *3 semester hours*

A two-fold approach is taken in this course. First is a survey and critical evaluation of general theories of economic development in a capitalist economy. Second is an examination of special problems facing presently underdeveloped countries and regions, and of alternative public policies for attacking these problems. Prerequisite: Eco 231. Fall semesters of odd years.

Eco 338 International Economics *3 semester hours*

This course is a descriptive and analytical examination of the conditions which lead to and shape international economic relationships. Of major concern are the operations of the financial institutions which facilitate trade and other relationships among nations. Specific topics include the balance of trade and payments, disequilibrium and gold flows, exchange rates, quotas and exchange control, and "the dollar shortage." Prerequisite: Eco 231. Spring semesters of odd years.

Political Science

PSc 231 American Government *3 semester hours*

A study of the general principles of the American system of constitutional government; special emphasis is placed upon the organization and functions of the national government—legislative, executive, and judicial; the rights and duties of citizenship; the electorate, political parties, civil rights, and the growing regulatory functions of government are carefully treated. Both semesters and summer.

PSc 331 State and Local Government *3 semester hours*

The organization, structure and function of our state and local governments. Consideration is given to modern administrative techniques and methods as they apply to state and local governmental units. Special emphasis is placed upon Pennsylvania state and local governmental organs. Prerequisite: PSc 231. Spring semesters.

PSc 332 Comparative Government *3 semester hours*

Major attention is given to Great Britain and Soviet Russia as best representing, among foreign governments, the democratic and authoritarian systems. Brief consideration is given to the governments of France, Italy, Germany, and Japan. Frequent comparison and contrasts are drawn between these governments and government in the United States. Prerequisite: PSc 231. Spring semesters.

PSc 333 International Relations *3 semester hours*

Major aspects of international politics, international law, and international organization (the three principal divisions of international relations) will be emphasized. The techniques of diplomacy, legal aspects of relations, and methods of current international organizations will be studied. Current events and recent history will be cited only as illustration of these techniques and methods. Special attention will be given to the interests and policies of the United States. Prerequisite: His 222, or consent of the instructor. Spring semesters.

PSc 334 American Political Parties *3 semester hours*

A study of American political parties, pressure groups, and elections. The course covers such topics as party organization, legal control of parties, finance, nominations, the conduct of elections, the right to vote, political machines, bosses, lobbies, and public opinion. Some comparisons are made with the English and French party systems. Prerequisite: PSc 231. Fall semesters.

PSc 335 American Political Ideas *3 semester hours*

Emphasis is placed upon the nature of American political ideas. This includes the English and European backgrounds, the political thought of the American Revolution, and the concepts of democracy and the extensive republic. Political ideas as a response to the industrialization of the society are analyzed. The crisis of individualism and the philosophy of the welfare state are given critical evaluation as an introduction to present democratic thought. Prerequisite: PSc 231. Spring semesters.

PSc 336 Soviet Government and Politics *3 semester hours*

An investigation into the concepts of interest and political power defined within the framework of Soviet ideology. An analysis of how the incompatibilities between Soviet national interest and world revolution as an ultimate goal of Soviet policy are reconciled. Special emphasis is placed upon the impact of the Stalin and Khrushchev regimes upon the utopian Soviet state. Prerequisite: PSc 231. Fall semesters.

PSc 337 American Foreign Policy *3 semester hours*

This course investigates theories, goals and methods of American Foreign Policy in the 20th century. While the historical development of American Foreign Policy is given attention, special emphasis is placed on current foreign policy problems and goals. Prerequisite: PSc 231. Fall semesters.

PSc 338 Introduction to Political Thought *3 semester hours*

Essentially a survey course. The political thought of the great philosophers of Western Civilization is examined. The intent of the course is to demonstrate to the student the relevancy of the great political philosophers to today's political beliefs and practices. Prerequisite: PSc 231. Spring semesters.

PSc 339 Elements of Public Administration *3 semester hours*

Principles and problems of public administration: the forms of administrative action, types of control, administrative law, the budget, personnel policies. Prerequisite: PSc 231. Fall semesters.

PSc 340 American Constitutional Law *3 semester hours*

The development of the American Constitutional System as reflected in leading decisions of the U. S. Supreme Court. This course emphasizes the various national powers, federalism and the bill of rights. Prerequisite: PSc 231. Fall semesters.

Sociology

Soc 231 Introduction to Sociology *3 semester hours*

A basic course in sociology dealing with the interaction arising from the association of human beings. Emphasis is placed upon natural and social heritage, the meaning and functions of culture, the origin, function, and characteristics of social institutions, such as family, religion, and the state; inquiry into the nature and genesis of social pathology. Both semesters and summer.

Soc 332 Contemporary Social Problems *3 semester hours*

An advanced course in sociology. It deals with several problems such as poverty, unemployment, crime, divorce, and mental maladjustment. Lectures, reports, and seminar techniques are used. Prerequisite: Soc 231. Spring semesters.

Soc 333 The Family *3 semester hours*

The development of the family and home in its historical, economic, and legal aspects. The various factors influencing the organization, disorganization, and reorganization, of the family are considered, as well as the modern trends in this basic institution. Both semesters and summer.

Soc 334 Juvenile Delinquency *3 semester hours*

The purpose of this course is to meet the needs of those interested in the areas of delinquency, probation, child care and community recreation. The functions of the family, neighborhood, and community will be discussed together with the dangers of social disorganization inherent in our institutions. The social treatment such as character building agencies, probation, and reform schools will be reviewed. The work of the juvenile court process, the child guidance clinic, and counseling will be analyzed. Prerequisite: Soc 231. Spring semesters.

Soc 335 Racial and Cultural Minorities *3 semester hours*

The condition of minority groups in America, the problems of assimilation of the foreign born, the immigration policy of the United States, race friction, and prejudices and the need for interracial cooperation will be investigated. Prerequisite: Soc 231. Fall semesters.

Soc 336 Urban Sociology *3 semester hours*

This course deals with the development of the modern city and metropolitan areas; the differentiation of functions; city complexity; demographic characteristics; ecological and social organization; city planning and the city as a way of life with emphasis upon present day reorganization, growth and improvement. Prerequisite: Soc 231. Fall semesters.

Soc 337 Sociological Theory *3 semester hours*

A survey of both historical and contemporary theories of society and social behavior, emphasizing the logic of systematic theory construction, and the relationship between theoretical models and empirical research as they are appropriate in substantive fields of sociology. Prerequisite: Soc 231. Fall semesters.

Soc 338 Criminology *3 semester hours*

A presentation of the development of criminology as a discipline, with an analysis of contemporary theories and empirical research related to the systematic study of the causation and prevention of criminal behavior. Prerequisite: Soc 231. Spring semesters.

Soc 339 Social Stratification *3 semester hours*

An examination of the classic theories of stratification (Aristotle, Plato, Marx, Weber, Mosca, Pareto), leading to an intensive analysis of stratification in contemporary societies, with an emphasis on the impact of class membership on individual behavior. Prerequisite: Soc 231. Fall semesters.

Soc 400 Methods in Social Research Seminar *3 semester hours*

Required of Liberal Arts majors concentrating in Sociology and Anthropology. Substitutes for SSc 400.

EXTENSION WORK

Extension courses permitted in the four-year curricula for the preparation of teachers of the public schools:

1. The college adheres to the regulations set up by the American Association of Colleges for Teacher Education. A committee of this Association has recommended that extension credits be limited to thirty-two semester hours in the four-year curricula;

2. Any course in the four-year curricula may be offered by the State Colleges subject to the standards approved by the State Council of Education;

3. Credit for equivalent courses given by other institutions may be given subject to the thirty-two semester hour limit and provided the courses have been given in accord with the standards of the State Council of Education;

4. All instructors of extension classes must be regularly-selected members of the faculty, and the names of all such persons employed must appear in the regular catalogue as members of the faculty.

5. Extension credits previous to June 1, 1941, shall be in accord with the limited list in effect at that time.

COLLEGE COURSES FOR TEACHERS

Each semester a number of courses may be offered in the evenings and on Saturday mornings. These courses are planned for teachers in service who wish to continue their work toward a degree. The courses given are selected from the several curricula and are chosen with the idea of accommodating as many teachers as possible.

The cost of these courses is at the rate of $12.50 per semester hour of credit for legal residents of Pennsylvania. A minimum basic fee of $37.50 will be charged. For out-of-state students the rate is $20 per semester hour (minimum basic fee—$60).

Not more than six semester hours of credit will be allowed for courses completed in any one semester by a student who during such term, is a regularly employed full-time teacher.

The College gladly welcomes any suggestions for courses to be offered evenings and Saturdays. Such requests should be mailed to the Dean of Academic Affairs.

GRADUATE STUDIES

West Chester began offering graduate studies in the fall of 1959 and now provides a full-time program of graduate studies during the regular college year and summer sessions. Classes are scheduled for late afternoons, evenings, and Saturdays during the fall and spring semesters.

The graduate program provides for specialization leading to the Master of Education degree in the following fields: elementary education, health and physical education, music education, English, social sciences, French, German, Spanish, biology, geography, mathematics, physical science, and—pending Department of Public Instruction approval—chemistry, physics, guidance, and audio-visual education.

A breakdown of the graduate enrollment in the fall semester of 1965 by curriculum produces the following figures:

Secondary Education	331
Elementary Education	148
Health & Physical Education	101
Music	55
Special	256
Total	891

The graduate program is designed especially for the in-service teacher, and the outlook for the immediate future is that it will most likely tend to be a part-time program in the spring and fall terms and a full program in the summer sessions.

It provides in-service teachers an opportunity to secure permanent certification and earn the Master of Education degree with no interruption in their teaching assignments. It permits them to improve their position on salary schedules which recognize graduate study.

One hundred and eighty graduate students have received Master of Education degrees since 1961.

A special Graduate Studies Bulletin, course offerings, and further information regarding the graduate program may be secured by writing the Dean of Graduate Studies, West Chester State College, West Chester, Pennsylvania, 19380.

CORRESPONDENCE AND COMMUNICATIONS

Persons interested in obtaining information concerning any of the topics listed below should contact the offices indicated. In each case the post office address is West Chester State College, West Chester, Pa. 19380; telephone, 692-3210.

Applications and Admissions
- Undergraduate Studies ..... Office of Admissions
- Graduate Studies ..... Office of Graduate Studies

Area Curriculum Center ..... Office of Research

Athletic Activities ..... Office of Athletics
- Coaching Staff
- Intercollegiate Sports Program

Campus Development ..... Office of Administrative Affairs

Certification Requirements for Teaching ..... Office of Undergraduate Studies

Clinics
- Reading ..... Department of Education
- Speech ..... Department of English

Courses and Curricula ..... Office of Undergraduate Studies

Cultural Activities
- All-Star Course ..... Department of Music
- Assembly Series and Philips Lecture Series ..... Office of Student Affairs
- Concerts and Recitals ..... Department of Music
- Theater 208 ..... Department of English

Educational Services
- Audio-Visual Aids ..... College Audio-Visual Center
- Data Processing ..... Office of Research
- District Library Service ..... Francis Harvey Green Library
- Film Service — Del-Chester Regional Instructional Materials Center
- Radio and Television ..... Audio-Visual Center

Faculty Speakers ..... Office of Public Relations

Financial Matters ..... Business Office
- Deferred payments
- Fees and expenses
- Refunds on accounts
- Student Checks (Student help, loans, scholarships)

Graduation Requirements ..... Office of Undergraduate Studies

Housing ..... Office of Student Affairs
- Men ..... Dean of Men
- Women ..... Dean of Women

Liberal Arts and Sciences Inquiries
Office of Liberal Arts and Sciences

Placement Service ..... Placement Office

Publications
- Annual Report ..... Office of Public Relations
- Catalogs (Graduate) ..... Office of Graduate Studies
- Catalogs (Undergraduate) ..... Office of Admissions
- Student Publications ..... Office of Student Affairs
- TORCH: Journal of Research and Creative Writing ..... Office of Research

Selective Service Information ..... Office of Undergraduate Studies

Student Aid ..... Office of Student Affairs
- Scholarships and loans
- Student work opportunities

Teacher Education Inquiries
- Elementary Education ..... Department of Education
- Health and Physical Education
  Department of Health and Physical Education
- Music Education ..... Department of Music
- Secondary Education ..... Office of Undergraduate Studies

Transcripts of College Credits ..... Registrar's Office

Use of College Facilities ..... Office of Administration

Veterans' Affairs ..... Office of Undergraduate Studies

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WEST CHESTER STATE COLLEGE

WEST CHESTER, PENNSYLVANIA 19380

REQUEST FOR APPLICATION FORMS

(to be sent as soon as possible following the student's completion of the junior year of secondary school)

1. Name .....
(Last) (First) (Second)

2. Number and Street ..... County .....

3. City ..... State ..... Zip Code.....

4. When do you wish to enter this College?

Month (September, January or June) ..... 19....

5. In what curriculum do you wish to enroll?

Elementary Ed .... Secondary Ed .... Physical Ed ....

Music Ed .... Liberal Arts and Sciences ....

If Secondary Education or Liberal Arts and Sciences,

list major .....

6. Have you attended any other college? Yes .... No .... If so,

give name of the college .....

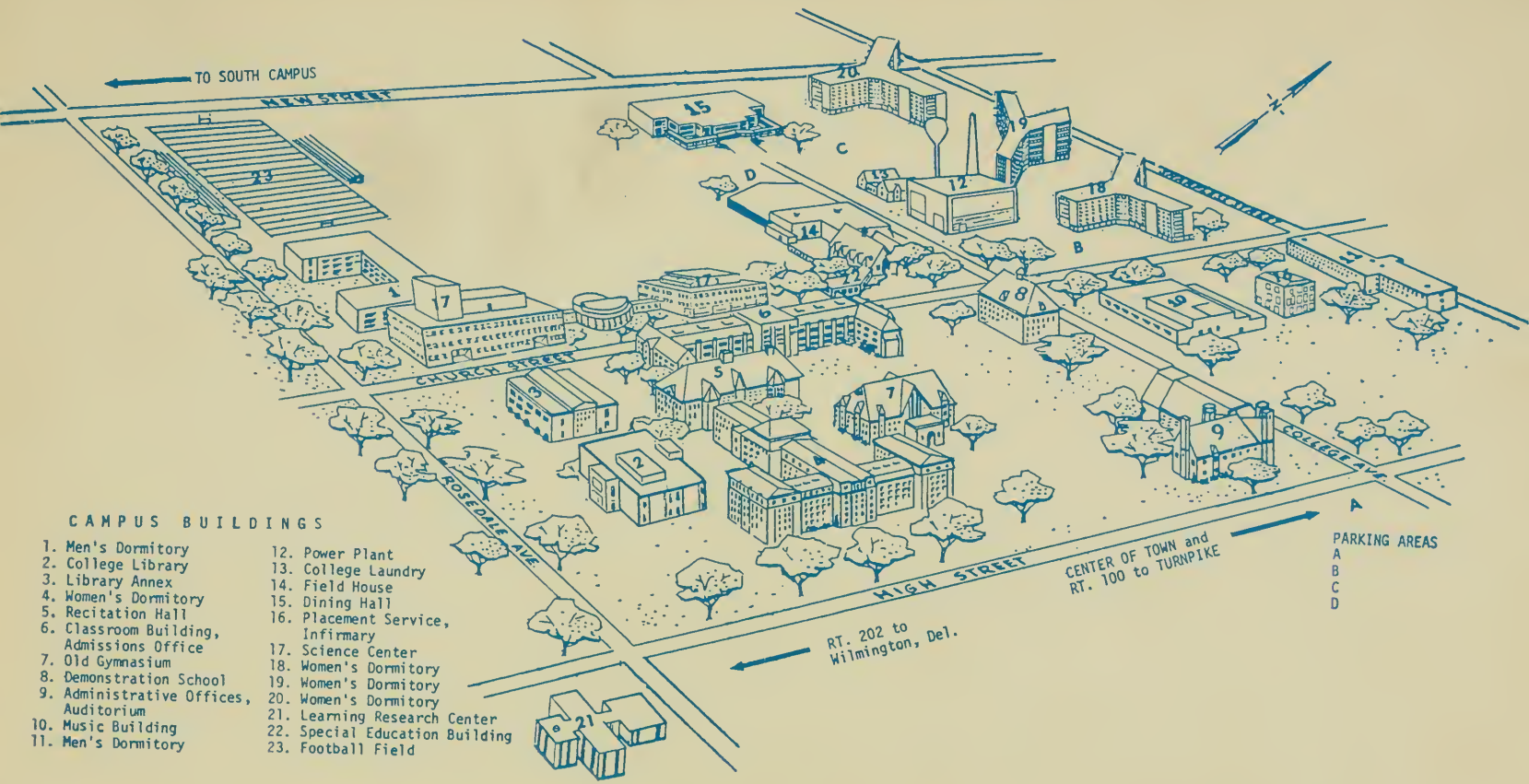
7. Do you apply as a Resident Student? ..... Day Student? .....

Date of graduation from High School: Month ..... Year ....

NOTE: When this information has been received by the Director of Admissions, instructions for completing your application will be sent to you. Do *not* send application fee with this form.

(3-66)

WEST CHESTER STATE COLLEGE CAMPUS



CAMPUS BUILDINGS

1. Men's Dormitory
2. College Library
3. Library Annex
4. Women's Dormitory
5. Recitation Hall
6. Classroom Building, Admissions Office
7. Old Gymnasium
8. Demonstration School
9. Administrative Offices, Auditorium
10. Music Building
11. Men's Dormitory
12. Power Plant
13. College Laundry
14. Field House
15. Dining Hall
16. Placement Service, Infirmary
17. Science Center
18. Women's Dormitory
19. Women's Dormitory
20. Women's Dormitory
21. Learning Research Center
22. Special Education Building
23. Football Field

WEST CHESTER STATE COLLEGE BULLETIN

WEST CHESTER, PENNSYLVANIA

UNDERGRADUATE STUDIES

CATALOGUE NUMBER
SUMMER SESSIONS
1967

WEST CHESTER STATE COLLEGE

IS ACCREDITED BY

THE MIDDLE STATES ASSOCIATION OF COLLEGES

AND SECONDARY SCHOOLS,

THE NATIONAL COUNCIL FOR ACCREDITATION

OF TEACHER EDUCATION,

THE AMERICAN ASSOCIATION FOR HEALTH,

PHYSICAL EDUCATION, AND RECREATION,

AND THE

NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC

1967 SUMMER SESSIONS

Vol. 95 No. 5

MARCH 1967

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WEST CHESTER STATE COLLEGE

West Chester State College is accredited by the Middle States Association of Colleges and Secondary Schools; the National Council for Accreditation of Teacher Education; the American Association for Health, Physical Education and Recreation; and the National Association of Schools of Music.

Modern and adequate science laboratories, instructional equipment, and classroom facilities are provided.

The annual All-Star Course brings to the campus some of the world's most famous artists in the fields of music, drama and dance. Among these have been the Pittsburgh, Detroit, National, Cleveland and Minneapolis Symphony Orchestras, the Canadian Players, the Singing Boys of Norway, George London, Isaac Stern, Carmen Amaya, Roberta Peters, the Jose Limon Dance Company, Brian Sullivan, Maureen Forrester, the Columbus Boys' Choir, Blanche Thebom, Jerome Hines, the Dublin Gate Theatre, the Chicago Opera Ballet, and the Robert Shaw Chorale.

The William Pyle Philips Lecture Foundation brings to the campus lecturers who are leaders in the fields of literature, science and world affairs. Among these have been Madame V. L. Pandit, Arnold Toynbee, Harrison Salisbury, Loren Eiseley, Daniel Schorr, Ashley Montague, Walter Sullivan, Robert Frost, Bennett Cerf, Max Lerner and William Teller.

The college assemblies, which are held approximately twice each month, provide the students, faculty and citizens of the community with an additional series of cultural and professional programs.

In addition to regular courses for preparing Elementary and Secondary teachers, West Chester has two special curricula preparing teachers in Music, and Health and Physical Education.

The College offers Liberal Arts and Sciences curricula in Humanities, Social Sciences, Geography, Natural Sciences, and Mathematics leading to a Bachelor of Arts degree.

The College maintains an active Placement Service without cost to graduates.

•

GENERAL STATEMENT

The twelve-week summer sessions are divided into three periods: the Pre Session of three weeks, the Regular Session of six weeks, and the Post Session of three weeks. The schedule includes courses for regular college students, and a number of special offerings for teachers in service.

West Chester State College is located in the beautiful residential town of West Chester, near the historic Brandywine and Valley Forge. Students enjoy the added advantage of easy access to Philadelphia, New York, and Atlantic City.

The College provides for its wide area of service a modern, progressive, and constantly expanding co-educational program. The major aim of the program is the preparation of teachers particularly for the public schools of the Commonwealth of Pennsylvania. Students who have attended summer sessions at West Chester know it is an ideal place to combine serious study with wholesome recreation and student life.

SOCIAL AND RECREATIONAL PROGRAM

A summer at West Chester gives the student an opportunity to pursue college work under the most favorable conditions. The tree-shaded campus, with its conveniently located buildings, provides a beautiful and restful environment.

Opportunities for recreation are many: softball, tennis, swimming, and other recreational activities. Social hours, when the students may talk informally with their professors, are a feature of the Pre and Post Sessions.

The borough and vicinity of West Chester are beautiful and at the same time provide material for study and research in history, science, and the arts. Philadelphia excels in scenic and historic interest, and special trips to the city will be arranged for those interested in taking advantage of these opportunities.

Seeing the world-famous fountains at Longwood Gardens, picnicking and canoeing on the Brandywine, taking advantage of the best in music, art, and the theatre — these are some of the activities that make a summer at West Chester much to be desired.

GENERAL INFORMATION

CREDITS

Credits for the summer sessions may be earned at the rate of one semester hour per week of work; thus, a student attending all three sessions may earn twelve credits.

Students will not be permitted to carry more than six semester hours of work in the Regular Session unless permission to do so has been secured in advance from the Dean of the Undergraduate Program.

PREADMISSION POLICY

Not more than nine semester hours of course work may be completed at the West Chester State College prior to formal admission to a program. A minimum cumulative grade point average of 2.00 must be earned in the preadmission courses to qualify for admission to a program. A transcript from an approved secondary school or equivalent preparation as approved by the Pennsylvania Department of Public Instruction must be filed in the Admissions Office to qualify for admission under this policy. Application for admission under the Preadmission Policy must be filed by the student in the Admissions Office.

HOUSING

There will be adequate housing available for all men and women students for all three summer sessions. The College is unable, however, to provide housing for married students and their families.

After filing an application for admission to the Summer Sessions with the Admissions Office, room reservations should be made through a **written application** to either the Dean of Women's or the Dean of Men's Office **one week prior to the opening** of each session.

Rooms may be occupied after 2:00 P.M. on the Sunday preceding each session.

COLLEGE REGULATIONS

The same college regulations pertaining to student procedure and conduct in effect during the academic year at West Chester State College are effective for the three summer sessions.

ENROLLMENT

Classes will be held in the courses offered subject to enrollment.

REGISTRATION (Undergraduate)

Registration as a student in any summer session does not establish priority or privilege for admission as a student for the regular academic year.

Students who have graduated from high school but have never attended college are not permitted to register in the summer sessions without permission of the Director of Admissions. Such permission **must be secured at least a week in advance of the closing date for pre-registration.** Persons who have not graduated from high school are not permitted to register in the summer sessions.

Students of other colleges must file with their pre-registration information form a statement of approval of attendance from the Dean of Instruction of the college they attend. **No form will be accepted without such a statement.**

West Chester students must present their college I.D. cards in order to register.

1. Registration for each summer session will be held in Lawrence Dining Hall on the opening day of each session.

The College will operate on Daylight Saving Time.

2. Procedure. Application for admission to any or all of the summer sessions may be made by filling in a pre-registration information form which may be secured from the Director of Admissions, West Chester State College, West Chester, Pa. 19380. Upon filing a form, a student may consider himself accepted, unless notified otherwise, and he **should report for registration** on the day or days indicated in the Summer Sessions calendar. Since the summer sessions are short, it is necessary for students to register at the times indicated as registration periods.

CLASS MEETINGS AND PERIODS

In each of the three summer sessions classes will be held on all weekdays except Saturdays.

No class absences are permitted during the Summer Sessions.

Pre and Post Sessions. After registration day, each class will meet twice daily, 8:00-9:30 A.M. and 10:30-12:00 A.M. The hour from 9:30-10:30 is for rest, library work, or recreation. It will not be possible for a student to carry more than one course during either the Pre or Post Session since all courses meet concurrently.

Regular Session. Classes begin on Tuesday and meet once daily (unless otherwise indicated) at the time stated in the schedule.

The schedule for classes during the Regular Session will operate on Daylight Saving Time as follows:

8:00- 9:30 First Period
9:30-11:00 Second Period
11:00-12:30 Third Period
12:30- 1:30 Luncheon
1:30- 3:00 Fourth Period

— However, time of classes may be subject to change by administrative decision.

WITHDRAWAL

1. All withdrawals must be processed through the Undergraduate Office.
2. A student may officially withdraw from a course without penalty after two class meetings in the Pre and Post Sessions and after one week in the Regular Session.
3. A student who finds it necessary to withdraw must file a letter with the Undergraduate Office giving the date of last class attendance and the reason for withdrawal.
4. If a student withdraws without following the official procedures, his registration is continued until the end of the summer session, and he will receive an "F" grade in the course or courses pursued.

* FEES (Undergraduate)

I. Regular Summer Sessions — 6 weeks (Check or money order payable to Commonwealth of Pennsylvania).

A. **Basic Fee** for the Regular Summer Session.

1. Pennsylvania Residents:
   In-service teachers — $12.50 per semester hour credit
   $37.50 — minimum fee

   Students of the Fourteen Pennsylvania State Colleges who are admitted to a Teacher Education Program:
   $12.50 per semester hour credit
   $37.50 — minimum fee

   All other Pennsylvania Residents:
   $15.00 per semester hour credit
   $45.00 — minimum fee

2. Out-of-State Students:
   $20.00 per semester hour credit
   $60.00 — minimum fee

* These fees are subject to change without notice. All charges for a session must be paid on the day of registration.

Students who enroll in the Health Education Curriculum are charged an additional fee of $6.

Those who enroll in the Music Education Curriculum and are taking work toward music certification, but without private lessons, pay an additional music fee of $15.

Students in the Humanities Curriculum of Liberal Arts and Sciences are charged a fee of $45.00 for one-hour lessons if electing individual lessons in piano, voice, organ, or orchestral instrument. If piano practice room is needed, the usual instrument rental of $2.00 will be charged.

Applied music fees for accelerating Music students will be consolidated in the Regular Session, and the music fee will be $45.00.

B. **Housing Fee** for the Regular Summer Session.

The housing fee for students is $102. This includes room and meals.

(1) An additional charge of $3 is made for rooms with running water.

(2) No reduction in the fee is made for absences of a few days at a time.

(3) A student may, at the discretion of the President of the College, occupy a double room by paying an additional $12.

(4) The rate for separate meals is:
Breakfast $0.65
Lunch $0.85
Dinner $1.25

C. **The Student Activities Fee** for the Regular Summer Session is $3.50. (Check or money order payable to Intracollegiate Governmental Association).

D. **Books Must Be Purchased.** They will cost approximately $15.

E. **Other Charges:**

(1) Music Education Students
A. Pipe organ for practice, $12 per session.
B. Rental of orchestral instruments, $2 per session.

(2) Academic Students
A. The fee of $37.50 will be charged for individual, one-hour lessons in voice, piano, organ, band, or orchestral instruments, plus the credit fee.
B. Rental of piano or orchestral instruments for practice, $2 per session.
C. Rental of pipe organ for practice, $12 per session.

(3) Private voice and piano lessons for Music Education students carry one extra credit costing $12.50. Chorus, Band and Orchestra carry one-half hour credit. (This is in addition to the regular $45 music fee.)

(4) Late Registration Payment after pre-registration — $5.00.

II. Pre Session and Post Session

1. **The Basic Fee** for Pre and Post Sessions: (Check or money order payable to Commonwealth of Pennsylvania).

The basic fees are the same as for the Regular Summer Session, see Section 1, above, with the exception of the minimum charges which are as follows for the Pre and Post Summer Sessions:

(1) In-Service teachers and students in teacher education programs of any of the 14 State Colleges _____ $18.75
(2) All other Pennsylvania Residents _____ $22.50
(3) Out-of-State residents — All Curricula _____ $30.00

Students in either of these sessions who enroll in the Health and Physical Education Curriculum are charged an additional fee of $3.

Those who enroll in the Music Education curriculum and take work toward music certification, but without private lessons, pay an additional music fee of $7.50.

2. **Housing Fee** for Pre and Post Sessions:

The housing fee for Pre and Post Sessions is $51.00 for each session. The fee includes room and meals.

3. **The Student Activity Fee** for Pre and Post Sessions is $1.75 for each session. (Check or money order payable to Intracollegiate Governmental Association).

4. **Books Must Be Purchased.** They will cost approximately $8.

5. **Other Music Charges** — for each session, one-half of those listed under Section E. above for the Regular Session.

OPPORTUNITIES FOR EMPLOYMENT AND LOANS

Students interested in securing employment should consult the Dean of Student Affairs. Full information concerning student loans will be found in the general college catalog.

PLACEMENT

The Placement Bureau of the College offers excellent opportunities for employment in teaching. Graduates are invited to make use of this bureau without cost.

CERTIFICATION OF TEACHERS

School Laws of Pennsylvania, Section 1202. State Certificates —

"State certificates shall be issued as herein provided. Each such certificate shall set forth the branches which its holder is entitled to teach. No teacher shall teach, in any public school, any branch which he has not been properly certificated to teach . . . .

"A certificate to teach shall not be granted or issued to any person not a citizen of the United States, except in the case of exchange teachers not permanently employed and teachers employed for the purpose of teaching foreign languages."

Provisional College Certificate

A student who satisfactorily completes one of the Teacher Education Programs offered by the College receives his degree from the College and qualifies for a Provisional College Certificate which is issued to him upon application to the Department of Public Instruction, Harrisburg, Pennsylvania.

In the elementary field this certificate qualifies the holder to teach in the public elementary schools of Pennsylvania for three years.

In the secondary field this certificate qualifies the holder to teach the subjects written thereon in the public secondary schools of Pennsylvania for three years.

In health education and music education the certificate qualifies the holder to teach the special subject in both elementary and secondary public schools of Pennsylvania for three years.

Permanent College Certificate

The Permanent College Certificate requires three years of successful teaching in the public schools of this Commonwealth under the Provisional College Certificate and the satisfactory completion of 24 semester hours of additional work of collegiate grade, completed subsequent to the issuance of the baccalaureate degree. One-half of the additional work must be professional and the remainder related to the subject or subject fields on the certificate. This certificate is then a permanent license to teach.

Extension of College Certificates

1. A college certificate valid for the secondary field may be extended to include the elementary field by completing twenty-four semester hours of approved courses in the field of elementary edu-

cation, distributed as follows: a course in the teaching of reading; the remainder selected from a minimum of four of the following areas: mathematics, arts and crafts, music, physical education, language arts, sciences, social studies, geography, mental hygiene, or a course dealing with exceptional children.

2. A college certificate valid for the elementary field may be extended to include any subject of the secondary field by completing 24 to forty semester hours in a secondary subject, depending upon the area of specialization.

3. A college certificate valid for the secondary field may be extended to include additional academic subjects when the holder has completed the number of semester hours required for the subject field.

Certification in Other States

Concerning the requirements for certification for teaching in other states, students should consult the Dean of the Undergraduate Program.

LIBERAL ARTS AND SCIENCES PROGRAM

All students enrolled in the Program are required to complete 128 semester hours of credit, approximately half of which are devoted to general studies concentrated primarily in the freshman and sophomore years.

These studies consist of courses distributed among a basic core of courses in English composition, speech, a foreign language at the intermediate level, philosophy, literature, art, music, history of civilization, anthropology, sociology, economics, political science, geography, psychology, a choice of a biological or physical science, and mathematics and/or logic.

To supplement his general academic studies, the student is also required to take four hours' credit in health and physical education.

Upon completing the above, the student elects one of five broad fields of concentration: humanities, social sciences, geography, natural sciences, or mathematics.

THE ACADEMIC YEAR

1967 - 1968

FALL SEMESTER

Last day to qualify for admission	Tuesday, August 1
Faculty and Department meetings	Friday, Sept. 8
Registration	
Part-time and Graduate Students	Saturday, Sept. 9
Freshmen	Monday, Sept. 11
Sophomores and Seniors	Tuesday, Sept. 12
Juniors	Wednesday, Sept. 13
Classes begin	Thursday, Sept. 14
Thanksgiving Recess	
Begins — close of classes	Tuesday, Nov. 21
Ends — 7:30 a.m.	Monday, Nov. 27
Chester County Institute	Monday, Nov. 27
Christmas Recess	
Begins — close of classes	Tuesday, Dec. 19
Ends — 7:30 a.m.	Tuesday, Jan. 2
Final Examinations	Thursday, Jan. 11 to 19
Fall semester ends	Friday, Jan. 19

SPRING SEMESTER

Last day to qualify for admission	Friday, Dec. 29 (1967)
Registration	
Part-time and Graduate Students	Saturday, Jan. 20
Freshmen	Tuesday, Jan. 23
Seniors and Sophomores	Wednesday, Jan. 24
Juniors, Readmission and Full-time Special Students	Thursday, Jan. 25
Classes begin	Friday, Jan. 26
Spring Recess	
Begins — close of classes	Saturday, Mar. 16
Ends — 7:30 a.m.	Monday, Mar. 25
Easter Recess	
Begins — close of classes	Thursday, Apr. 11
Ends — 7:30 a.m.	Tuesday, Apr. 16
Final Examinations	Thursday, May 16 to Friday, May 24
Alumni Day	Saturday, May 25
Commencement	Sunday, May 26

SUMMER SESSION

1968

Pre Session	June 3 - June 21
Regular Session	June 24 - August 2
Post Session	August 5 - August 23

ACADEMIC YEAR — Undergraduate

1967 - 1968

HOUSING

The college has made provisions for the housing of its resident students. It may be impossible to provide housing for all students who apply for admission. Although College authorities are embarrassed by this situation, there is nothing that can be done about it in this period of serious housing shortages. It is very important that all housing arrangements for both upperclassmen and new students be satisfactorily settled with the Dean of Women or Dean of Men before any student comes to the campus in September.

ADMISSION REQUIREMENTS

Candidates for admission to the College must meet the following requirements:

1. Acceptable scholarship as evidenced by graduation from an approved secondary school or equivalent preparation as determined by the Credentials Evaluation Division of the Pennsylvania Department of Public Instruction. All candidates for admission must take the Scholastic Aptitude Test and English Composition Achievement Test of the College Entrance Examination Board;
2. Satisfactory character and personality traits as well as proper attitudes and interests as determined by the high school principal, guidance director, or other school official acquainted with the student;
3. Health and physical condition as evidenced by a medical examination by the student's family physician reported on the adopted form and approved by the College physician;
4. Recommendations of one or more College staff members following a personal interview with the applicant;
5. For admission to special curricula, the College may require the candidate to take an appropriate aptitude test in the special field in order to obtain further evidence of ability to succeed.

Admission Procedure

Admission to the regular fall or spring semester involves a number of steps, the first of which is the filing of application forms which may be secured from the Admissions Office.

The West Chester State College is owned and operated by the Commonwealth of Pennsylvania and therefore charges no tuition.

In effect, **each student who enrolls receives a free tuition scholarship from the State.**

*COSTS BY CURRICULA PER ACADEMIC YEAR

A Summary of Costs For the Different Curricula	Elementary Education	Secondary Education	Health and Physical Education	Music Education	Liberal Arts
Basic Fee	$ 250	$ 250	$ 250	$ 250	$ 250
Special Curriculum Fee	—	—	36	90	—
Activity Fee	40	40	40	40	40
Books & Supplies (approx.)	120	120	120	120	120
Total—Day Students	410	410	446	500	410
Room & Board	612	612	612	612	612
Total—Boarding Students	$1022	$1022	$1058	$1112	$1022

NOTES:

1. **THE ABOVE COSTS ARE FOR ONE ACADEMIC YEAR.**
2. Payments are due on or before the date of registration.
3. For students other than legal residents of Pennsylvania a tuition fee of $20.00 per semester hour is charged in lieu of basic fee.

*4. Fees are subject to change without notice.

CURRICULA OFFERED AT WEST CHESTER

Elementary Education—

A non-specialized course for teachers of the elementary grades. Specialization in the Kindergarten-Primary or Intermediate areas is possible through selection of appropriate elective courses.

Secondary Education—

Teaching in the junior and senior high schools. Students must choose a teaching field from the following: English, Latin, French, Spanish, German, mathematics, general science, chemistry, physics, biology, geography, social science and history.

Health and Physical Education—

Teaching health and physical education in the elementary and secondary schools.

Music Education—

Teaching music — both instrumental and vocal — in the elementary and secondary schools.

Arts and Sciences

The satisfactory completion of a four-year course of study in any of these five areas: Humanities, Social Sciences, Geography, Natural Sciences, and Mathematics, will lead to the degree of Bachelor of Arts.

Degree Curriculum for Dental Hygienists.

Degree Curriculum for Public School Nurses.

REGISTRATION INSTRUCTIONS

1967 SUMMER SCHOOL

UNDERGRADUATE STUDENTS

Lawrence Hall (New Dining Hall)

Station I: Foyer of the new dining hall.

A. All students report to the foyer and pay the student activity fee. The fees are $1.75 for Pre and Post sessions and $3.50 for the Regular session.

B. Have checks made payable in advance to the Intracollegiate Governmental Association (I.G.A.).

Station II: Northeast Dining Room — Students MUST show Student Activity fee receipt before they may enter the dining room.

A. Secure class permits and registration forms upon entering dining room.

B. Undergraduate Table — (Change of Course or Late Registration)

1) All students who wish to change a course or drop a course, report to the Undergraduate Table.

2) ALL STUDENTS WHO HAVE NOT PRE-REGISTERED, REPORT TO THIS TABLE.

C. Registrar's Table

1) Senior students planning to graduate in August, 1967, must sign for diplomas and secure applications for Provisional Teacher Certification. Please designate graduation date as Pre, Regular, or Post Session.

2) Students receiving Veterans benefits must secure proper form.

3) Students who wish to have credits transferred to another college secure special form.

D. Complete all information requested on registration cards at the designated writing areas and proceed to the Dean of Men's table or Dean of Women's table.

E. Dean of Men's and Dean of Women's Table.

1) All students please check resident or commuting status.

2) Resident students will receive room assignments and indicate same on their registration forms.

3) All resident students must take their meals in the College dining room.

4) ALL RESIDENT STUDENTS MUST HAVE THE APPROVAL OF THE DEAN OF MEN OR DEAN OF WOMEN TO SECURE AUTOMOBILE STICKERS.

5) Proceed from this area to Checker Table. After leaving the checking tables, you should have in your possession the blue permit-to-attend class card and your white preregistration form.

Station III: Northwest Dining Room

A. Pay tuition, and room and board fees.

B. Have permit cards stamped by the Business Office. THESE CARDS ARE TO BE SUBMITTED TO YOUR INDIVIDUAL PROFESSORS FOR CLASS ADMISSION.

C. Automobile Regulations

Students who have the pre-approval of the Dean of Men or the Dean of Women MUST secure their automobile stickers at this station.

SUMMER WORKSHOPS

DEMONSTRATION SCHOOL

The Demonstration School will be open during the six weeks' session for the purpose of demonstrating teaching at the elementary level. Experience in student teaching will be available for a limited number of students who file applications early in the spring.

WORKSHOP IN ELEMENTARY EDUCATION

A Workshop in Elementary Education will be conducted to provide opportunity for study of newer practices in elementary education. Current problems will be shared by the members of the group. Discussions will be led by an experienced coordinator.

Master teachers and the facilities of the Demonstration School will be utilized for demonstration and observance. The Workshop will meet during the first and second periods (8:00-11:00 A.M.) during the Regular Session and will carry four semester hours of credit. Students may elect an additional three credit course. The Workshop is open to experienced teachers and college graduates.

WORKSHOP IN EARLY CHILDHOOD ENRICHMENT

A workshop for both pre-service and in-service elementary teachers who desire to learn more about working with pre-school and kindergarten age children who are culturally deprived. The students in this workshop will have an opportunity to spend most of their class hours in a school situation observing and working with children. Experienced teachers will have charge of the classes. The college provides an experienced teacher and supervisor to help the student gain greater insight into the problems of working with children who have not had the varied experiences associated with normal home life.

This workshop is of great value to the student or teacher who wishes greater insight into the sociological problems of an increasingly larger number of school children who might be identified with life in the Appalachia areas to which our Federal Government has referred in recent years.

SUMMER MUSIC WORKSHOP FOR HIGH SCHOOL MUSICIANS

A summer music workshop for serious musicians of high school age will be held from July 3 to July 28 under the sponsorship of the Music Department. Offerings will include: band, orchestra, chorus, individual lessons, music theory, ensembles, and dance band. Concerts, recitals, and special clinics, open to the public, will be presented during the workshop. For brochure and application forms write to: Richard Boerlin, Workshop Director, Music Department, West Chester State College, West Chester, Pennsylvania 19380.

MUSIC WORKSHOP FEES

Total fee for commuting students (including accident insurance, individual lessons, activity fee, and full workshop privileges) $65.00

Total fee for resident students (including above, plus room and board on campus for four weeks) _____ $150.00

STRING CONFERENCE AND CHAMBER MUSIC WORKSHOP

AUGUST 11 - 20, 1967

The Department of Music of West Chester State College, and the Pennsylvania String Teachers Association will sponsor the Fifth Annual String Conference and Chamber Music Workshop from August 11 to August 20 in Swope Hall. A faculty of internationally

famous string authorities will present master classes for each of the string instruments to both adult and youth participants. Two youth and one adult string symphony orchestras, conducted by outstanding guest conductors, will be in daily rehearsal, culminating in gala performances at the end of the Conference. Chamber music ensembles will be organized and coached by a distinguished faculty of chamber music experts. Solo literature classes will be presented and directed by master teachers. Guest lecturers and experts in many phases of string teaching and performance will preside over special sessions.

The String Conference will embrace complete programs for both adults and youth, which will run concurrently for ten days. Information and application forms may be obtained by writing Dr. Constantine Johns, Executive Director of the Conference, Department of Music, West Chester State College, West Chester, Pennsylvania 19380.

A PROGRAM OF INDEPENDENT STUDY AND SUPERVISED FIELD EXPERIENCE IN CAMPING

The Department of Health, Physical Education, and Recreation offers a special program of courses in camp leadership for staff members at children's summer camps. These courses are designed to aid the student's professional growth and knowledge through directed leadership experience with children in the informal atmosphere of the camp.

COURSES AVAILABLE

Undergraduate Students

464. Supervised Recreation Leadership — 3 credits. (6 to 8 weeks' attendance at camp July through August.)

ELIGIBILITY:

Any matriculated student at West Chester State College is eligible to participate in the program. Permission of the special adviser should be obtained if credit is to be applied toward a degree. Students from other colleges may register with the permission of the course instructor. It is suggested that students enrolled at other colleges obtain the approval of their special adviser or appropriate administrative officer to assure that these courses may be applied toward degree requirements.

Apply to: Mr. Alvin B. Davis, Dept. of Health and Physical Education.

UNDERGRADUATE PROGRAM
SUMMER CALENDAR 1967

1967 PRE SESSION

Pre-registration Ends _____ Monday, May 29

Registration _____ Monday, June 5
Students will register alphabetically according to last name:
8:30-11:30 A.M. _____ A through L
1:30-3:30 P.M. _____ M through Z

Classes begin 8:00 A.M. _____ Tuesday, June 6

Classes end _____ Friday, June 23

1967 REGULAR SESSION

Pre-registration Ends _____ Monday, June 19

Registration _____ Monday, June 26
Students will register alphabetically according to last name:
8:30-11:30 A.M. _____ A through L
1:30-3:30 P.M. _____ M through Z

Classes begin 8:00 A.M. _____ Tuesday, June 27

Classes end _____ Friday, August 4

1967 POST-SESSION

Pre-registration Ends _____ Monday, July 31

Registration _____ Monday, August 7
Students will register alphabetically according to last name:
8:30-10:00 A.M. _____ A through L
10:00-11:30 A.M. _____ M through Z

Classes begin 8:00 A.M. _____ Tuesday, August 8

Classes end _____ Friday, August 25

UNDERGRADUATE COURSES OFFERED

Pre Session — June 5 to June 23

(Each class meets 8:00 - 9:30 a.m. and 10:30 - 12:00 Noon)

(For course description, see the appropriate undergraduate bulletin)

ART

Dept.	No.	Course Title	Credits
Art	101	Introduction to Art	3

EDUCATION AND PSYCHOLOGY

Edu	100	Social Foundations of Education	3
Edu	300	Audio-Visual Education (01)	3
Edu	300	Audio-Visual Education (02)	3
Edu	350	Educational Psychology (01)	3
Edu	350	Educational Psychology (02)	3
Edu	360	The Culturally Disadvantaged Child — 7 P.M.	3
Edu	401	Problems of Elementary Education	3
Psy	250	General Psychology	3
Psy	352	Human Development (Adolescent)	3

ENGLISH

Eng	101	English Composition I (01)	3
Eng	101	English Composition I (02)	3
Lit	221	General Literature I (01)	3
Lit	221	General Literature I (02)	3
Lit	222	General Literature II	3
Lit	223	American Literature I	3
Lit	225	English Literature I	3
Lit	333	Shakespeare I	3
Lit	350	Children's Literature	3
ThA	206	Theatre Production for Schools	3
Eng	315	Advanced Grammar	3

GEOGRAPHY

Geo	101	World Geography	3
Geo	208	Geography of Latin America	3

HEALTH AND PHYSICAL EDUCATION

HEd	361	Tests and Measurements	3
HEd	391	Psychology of Physical Disabilities 7:00 P.M.	3
HEd	481	Introduction to Safety Education 7:00 P.M.	3

MATHEMATICS

Dept.	No.	Course Title	Credits
Mat	101	Introduction to College Mathematics I (01)	3
Mat	101	Introduction to College Mathematics I (02)	3
Mat	141	Analytic Geometry and Calculus I	3
Mat	351	Teaching of Mathematics in Elementary Schools	3

MUSIC

Mus	251	Music for the Primary Grades	3
Mus	220	Fine Arts	3
Mus	310	History of Music	3

PHILOSOPHY

Phi	480	Introduction to Philosophy (01)	3
Phi	480	Introduction to Philosophy (02)	3

PUBLIC SCHOOL NURSING

PSN	300	Public School Nursing 4.30 p.m. - 6:30 p.m.	2

SCIENCE

Sci	150	Basic Physical Science (Lab)	3
Sci	100	Basic Biological Science (Lab)	3
Bio	242	Ornithology	3
Bio	261	Human Anatomy (Lab 1:30 to 3:30 Mon. through Thurs.)	4
Bio	301	Genetics (Lab 1:30 to 3:30 Tues. and Thurs.)	3

SOCIAL SCIENCE

Eco	333	Consumer Economics	3
His	101	History of Civilization I	3
His	102	History of Civilization II	3
His	211	History of U. S. & Pa. I	3
His	212	History of U. S. & Pa. II	3
His	313	History of Pennsylvania	3
PSc	231	American Government	3
Soc	231	Introduction to Sociology	3
SSc	331	Teaching Social Studies in Secondary Schools	3

UNDERGRADUATE COURSES OFFERED

Regular Session — June 26 to August 4

(Classes meet daily Monday through Friday unless otherwise indicated)

(For course descriptions, see appropriate undergraduate catalogue)

STUDENT TEACHING

(Application should be filed prior to May 1)

Dept.	No.	Course Title	Credits
Edu	411	Elementary (June 26 to August 4)	6

FIRST PERIOD: 8:00 - 9:30 A.M.

ART

Art	101	Introduction to Art	3
Art	201	Arts and Crafts	3
Art	406	History of Western Art II (1750 to present)	3

EDUCATION AND PSYCHOLOGY

Edu	300	Audio-Visual Education (01)	3
Edu	300	Audio-Visual Education (02)	3
Edu	302	Problems of Secondary Education	3
Edu	320	Teaching Reading in Secondary School	2
Edu	350	Educational Psychology (01)	3
Edu	410	Early Childhood Enrichment Education (8:00 - 12:00)	6
Edu	441	Workshop in Elementary Education (8:00 - 11:00)	4
Edu	451	Tests and Measurements in Guidance (01)	3
Psy	250	General Psychology	3
Psy	351	Human Development (Child)	3

ENGLISH

Eng	101	English Composition I (01)	3
Eng	102	English Composition II (02)	3
Lit	221	General Literature I	3
Lit	222	General Literature II	3
Lit	225	English Literature I	3
Eng	103	Speech (01)	2
Lit	350	Children's Literature	3
Eng	353	Speech Problems (01)	3
ThA	309	History of Western Theatre (1600 to present)	3

GEOGRAPHY

Geo	101	World Geography	3
Geo	202	Geography of the U. S. and Canada	3

HEALTH AND PHYSICAL EDUCATION

Dept.	No.	Course Title	Credits
HEd	350	Health for the Elementary Grades	3
HEd	464	Supervised Recreation Leadership (Six to eight weeks attendance at Camp, July through August. Apply to Mr. Alvin Davis, West Chester State College).	3
HEd	483	Psychology of Accident Prevention	3

LANGUAGE

Fre	103	Intermediate French I	3
Fre	104	Intermediate French II	3
Spa	101	Elementary Spanish I	3
Spa	102	Elementary Spanish II	3
Ger	101	Elementary German I	3
Ger	102	Elementary German II	3

MATHEMATICS

Mat	101	Introduction to College Mathematics I (01)	3
Mat	102	Introduction to College Mathematics II	3
Mat	411	Modern Algebra I	3
CSc	201	Basic Computer Science	3

MUSIC

Mus	212	Sight Singing II (8:00 - 9:00 a.m.)	2
Mus	301	Theory of Music IV	3
Mus	211	Sight Singing I	3
Mus	202	Theory of Music III	3
Mus	100	Foundations of Music	3

PHILOSOPHY

Phi	480	Introduction to Philosophy (01)	3

SCIENCE

Sci	150	Basic Physical Science (Lab)	3
Sci	100	Basic Biological Science (Lab - 1 to 5 - Fri.)	3
Sci	350	Teaching Science in Secondary Schools	3
*Phy	101	Physics I June 26 - July 21 (Lab)	4
*Phy	102	Physics II July 24 - August 18 (Lab)	4
†Che	121	Chemistry I June 26 - July 21	4
†Che	122	Chemistry II July 24 - August 18	4

Students may enroll for Physics I and Physics II only — full load. This also applies to Chemistry I and Chemistry II.

* Class hours for Physics courses are 8:30 - 12:30.

† Class hours for Chemistry courses are 9:30 - 11:30. (Chemistry Lab — 12:30 to 3:30 Monday through Thursday)

SOCIAL SCIENCE

Dept.	No.	Course Title	Credits
Eco	231	Principles of Economics	3
His	101	History of Civilization I (01)	3
His	211	History of U. S. & Pa. I	3
His	324	History of Latin America	3
PSc	231	American Government (01)	3
Soc	231	Introduction to Sociology	3

SECOND PERIOD: 9:30 - 11:00 A.M.

ART

Art	301	Painting I	3
Art	303	Sculpture I	3
Art	407	History of Non-Western Art	3

EDUCATION AND PSYCHOLOGY

Edu	100	Social Foundations of Education	3
Edu	300	Audio-Visual Education (03)	3
Edu	300	Audio-Visual Education (04)	3
Edu	309	Language Arts (01) 9:30 - 12:30	6
Edu	309	Language Arts (02) 9:30 - 12:30	6
Edu	317	Oral and Written Expression in the Elementary School	3
Edu	319	Reading in the Elementary School	3
Edu	350	Educational Psychology (02)	3
Psy	343	Psychology of the Mentally Retarded	3
Psy	355	Experimental Psychology	3

ENGLISH

Eng	101	English Composition I (02)	3
Eng	102	English Composition II (02)	3
Eng	315	Advanced Grammar	3
Eng	316	Teaching of English in Secondary Schools	3
Eng	353	Speech Problems (02)	3
Eng	211	Journalism	3
Lit	224	American Literature II	3
Lit	226	English Literature II	3
ThA	307	Creative Dramatics	3

GEOGRAPHY

Geo	211	Map Appreciation and Interpretation	3
Geo	204	Geography of Pennsylvania	3

HEALTH AND PHYSICAL EDUCATION

HEd	482	Driver Education and Training	3

LANGUAGE

Dept.	No.	Course Title	Credits
Fre	101	Elementary French I	3
Fre	102	Elementary French II	3
Spa	103	Intermediate Spanish I	3
Spa	104	Intermediate Spanish II	3
Ger	103	Intermediate German I	3
Ger	104	Intermediate German II	3

MATHEMATICS

Mat	101	Introduction to Mathematics I (02)	3
Mat	142	Analytic Geometry and Calculus II	3
CSc	301	Computer Programming	3

MUSIC

Mus	220	Fine Arts	3

PHILOSOPHY

Phi	480	Introduction to Philosophy (02)	3
Phi	490	Logic	3

PUBLIC SCHOOL NURSING

PSN	302	Public Health Nursing I	3

SCIENCE

Phy	330	General Astronomy	3
Che	321	Organic Chemistry I (Lab 12:30 - 3:30 Tuesday and Thursday)	4
Sci	250	Science for the Elementary Grades (01)	3
Sci	250	Science for the Elementary Grades (02)	3
Bio	111	Botany I (Lab 1:30 to 3:30 Tuesday and Thursday)	4

SOCIAL SCIENCES

Ant	231	Cultural Anthropology	3
His	102	History of Civilization II	3
His	212	History of U. S. & Pa. II (01)	3
His	220	Renaissance and Reformation	3
PSc	231	American Government (02)	3
PSc	336	Soviet Government and Politics	3

THIRD PERIOD: 11:00 - 12:30 P.M.

ART

Art	202	Art In Elementary Grades	3
Art	305	Drawing and Print Making	3

EDUCATION AND PSYCHOLOGY

Dept.	No.	Course Title	Credits
Edu	300	Audio-Visual Education (05)	3
Edu	301	Early Childhood Education	3
Edu	306	Introduction to Guidance and Counseling	3
Edu	350	Educational Psychology (03)	3
Edu	451	Tests and Measurements in Guidance (02)	3
Psy	352	Human Development (Adolescent)	3
Psy	370	Mental Hygiene	3
Psy	354	Social Psychology	3

ENGLISH

Eng	000	Composition (Remedial)	0
Eng	101	English Composition I (03)	3
Eng	102	English Composition II (03)	3
Eng	103	Speech (02)	2
Eng	314	History of Language	3
Lit	222	General Literature II	3
Lit	227	General Literature II (Eng. and L.A. majors)	3
Lit	348	Short Story	3
Lit	336	Romantic Movement	3

GEOGRAPHY

Geo	100	Physical Geography for Teachers	3
Geo	309	World Problems in Geography	3

MATHEMATICS

Mat	105	College Algebra & Trigonometry	3
Mat	106	Foundations of Mathematics	3
Mat	351	Teaching of Mathematics in Elementary Schools	3

MUSIC

Mus	110	Theory of Music I	3
Mus	201	Theory of Music II	3
Mus	220	Fine Arts	3
Mus	171-8	Symphony Orchestra	.5

PUBLIC SCHOOL NURSING

PSN	307	Specialized Health Problems (Methods and Materials for School Nursing)	3

SCIENCE

Che	120	Principles of Chemistry (Lab 1:30 - 3:30 Monday and Wednesday)	4
Sci	252	Earth Science (Lab 1:30 - 3:00 Tuesday and Thursday)	3
Bio	141	Zoology I (Lab 1:30 to 3:30 Tues. and Thurs.)	4
Bio	262	Human Physiology (Lab 1:30 to 3:30 Tues. and Thurs.)	4
Bio	346	Plant Structure (Lab 1:30 to 3:30 Wednesday)	3

SOCIAL SCIENCE

Dept.	No.	Course Title	Credits
His	101	History of Civilization I (02)	3
His	212	History of U. S. and Pa. II (02)	3
His	321	History of England	3
PSc	231	American Government (03)	3
Soc	333	Family	3

FOURTH PERIOD: 12:30 - 3:30 P.M.

MUSIC

Mus	332	Instrumental Conducting (12:30 - 1:30)	2
		by appointment; Instruments (Individual Lessons)	1
		by appointment; Voice (Individual Lessons)	1
		by appointment; Piano (Individual Lessons)	1
Mus	161-8	Choir (1:30 - 2:30)	.5
Mus	181-8	Concert Band (2:30 - 3:30)	.5

UNDERGRADUATE COURSES OFFERED

Post Session — August 7 to August 25

(Each class meets 8:00 - 9:30 a.m. and 10:30 - 12:00 Noon)

(For course descriptions, see appropriate undergraduate catalogue)

EDUCATION AND PSYCHOLOGY

Dept.	No.	Course Title	Credits
Edu	300	Audio-Visual Education (01)	3
Edu	300	Audio-Visual Education (02)	3
Edu	307	Diagnostic and Remedial Reading	3
Edu	350	Educational Psychology	3
Edu	401	Problems of Elementary Education	3
Edu	451	Tests and Measurements in Guidance	3
Psy	341	Psychology of the Exceptional Child	3
Psy	352	Human Development (Adolescence)	3

ENGLISH

Eng	000	Composition — Remedial (01)	0
Eng	000	Composition — Remedial (02)	0
Eng	000	Composition — Remedial (03)	0
Eng	101	English Composition I	3
Lit	221	General Literature I	3
Lit	222	General Literature II	3
Lit	350	Children's Literature	3

GEOGRAPHY

Geo	210	Geographic Influences in American History	3
Geo	201	Conservation of Natural Resources	3
Geo	101	World Geography	3
Geo	315	Geography Area Field Study (Puerto Rico) (Advanced registration with Geography Department necessary).	3

HEALTH AND PHYSICAL EDUCATION

HEd	484	Methods and Materials in Safety Education	3

LANGUAGE

Fre	102	Elementary French II	3
Fre	103	Intermediate French 1	3
Spa	102	Elementary Spanish II	3
Spa	103	Intermediate Spanish I	3
Ger	102	Elementary German II	3
Ger	103	Intermediate German I	3

MATHEMATICS

Dept.	No.	Course Title	Credits
Mat	101	Introduction to College Mathematics I (01)	3
Mat	101	Introduction to College Mathematics I (02)	3
Mat	105	College Algebra and Trigonometry	3
Mat	351	Teaching of Mathematics in Elem. Schools	3

MUSIC

Mus	220	Fine Arts	3
Mus	233	Acoustics	3
Mus	252	Music for the Intermediate Grades	3

SCIENCE

Sci	150	Basic Physical Science (Lab)	3
Bio	100	Basic Biological Science (Lab)	3
Bio	241	Field Zoology	3

SOCIAL SCIENCE

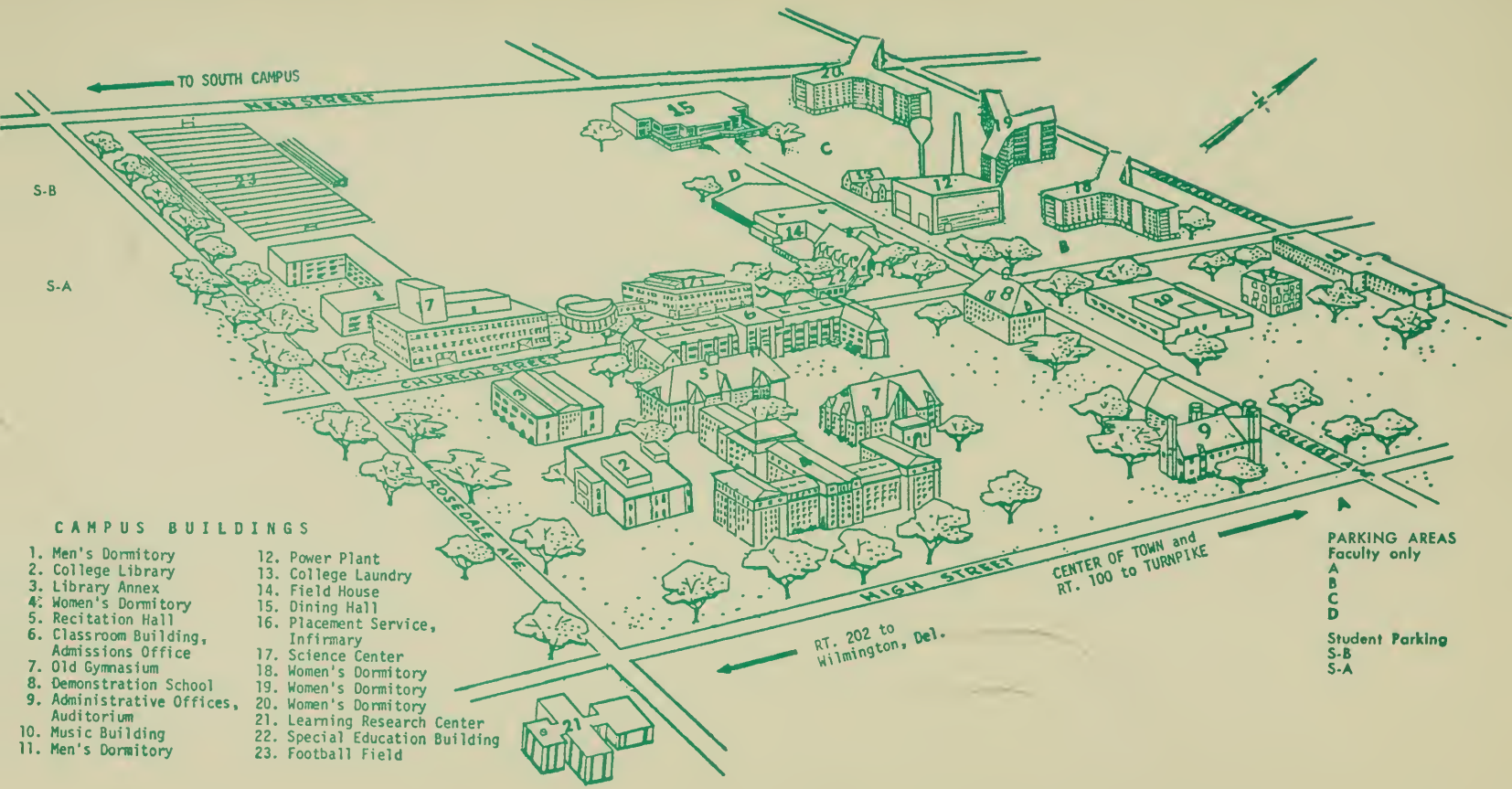
His	101	History of Civilization I	3
His	102	History of Civilization II	3
His	211	History of U. S. and Pa. I	3
His	212	History of U. S. and Pa. II	3
PSc	231	American Government	3
Soc	231	Introduction to Sociology	3
SSc	332	Teaching Social Studies and Geography (Elementary)	3

PRE-REGISTRATION INSTRUCTIONS

All prospective summer school students **must** fill out the **Pre-Registration Information Card** which is enclosed in this catalogue. Please give the information requested as well as the courses you wish to take during the Summer Sessions. Return this card to Admission's Office, West Chester State College, West Chester, Pennsylvania, 19380.

Pre-registration for the three summer sessions (Pre, Regular, and Post) will terminate the Monday prior to the General Registration and Payment Dates of June 5 — Pre; June 26 — Regular; August 7 — Post. Any student who fails to furnish **Pre-Registration Information Forms** to the College by the pre-registration deadlines will be subject to a late pre-registration fee of five dollars ($5.00). Also, there will be a Change-of-Course fee of $5.00 on registration day for any student who wishes to change a course after having pre-registered. Therefore, all changes of courses must be made prior to the three deadlines mentioned above. ALL SUMMER SCHOOL FEES ARE DUE AND PAYABLE ON THE GENERAL REGISTRATION DATES.

WEST CHESTER STATE COLLEGE CAMPUS



CAMPUS BUILDINGS

1. Men's Dormitory
2. College Library
3. Library Annex
4. Women's Dormitory
5. Recitation Hall
6. Classroom Building, Admissions Office
7. Old Gymnasium
8. Demonstration School
9. Administrative Offices, Auditorium
10. Music Building
11. Men's Dormitory
12. Power Plant
13. College Laundry
14. Field House
15. Dining Hall
16. Placement Service, Infirmary
17. Science Center
18. Women's Dormitory
19. Women's Dormitory
20. Women's Dormitory
21. Learning Research Center
22. Special Education Building
23. Football Field

PARKING AREAS
Faculty only
A
B
C
D

Student Parking
S-B
S-A

West Chester State College Bulletin
WEST CHESTER, PENNSYLVANIA

Entered as second-class matter
March 3, 1931, at the Post Office
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Summer Sessions 1967

Undergraduate
Courses for Permanent Certification